# International Abstract of Surgery

SUPPLEMENTARY TO

# Surgery, Gynecology and Obstetrics

# **EDITORS**

ALLEN B KANAVEL, M D, Chicago LORD MOYNIHAN, K C M G, C B, Leeds PIERRE DUVAL, Paris

ABSTRACT EDITORS
MICHAEL L MASON AND SUMNER L KOCH

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### CONTENTS

1	Index of Abstracts of Current Literature	111-VI
11	Authors of Articles Abstracted	VIII
III	Collective Review	1-15
IV	Abstracts of Current Literature	16-63
V	Bibliography of Current Literature	64-88

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# CONTENTS - JANUARY, 1935

# COLLECTIVE REVIEW

Gastroduodenal Ulcerativf Disease—A Review of the 1033 Literature Samuel J. Fogelson, M.D., M.S., F.A.C.S., Chicago

# ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK  Head  HINTZE, \ Benign and Malignant Parotid Tumors and Their \menability to Cure  RUSSELL, W R The After Effects of Head Injury	16 23	/UPPINCER, A., and ROHRFF, C. The Clinical Aspects and Treatment of Struma Maligna. A Report on 101 Cases Treated in the Period from 1018 to 1933  VAN POOLE, G. McD. Tuberculosis of the Larynx	21 22
Еуе		SURGERY OF THE NERVOUS SYSTEM	
O'DAI, K. Operations for the Relief of Trichiasis and Cicatricial Entropion  Inlegis, R. R., and Damel, C. S. Neurinoma of the Orbit  Smollroff, J. W. and Agarton, S. A. Metastatic Carcinoma of the Retina Report of a Case, with Pathological Observations  Cattell, R. B. Tye Complications in Exophthalmic Goiler  Ear  Rooger, T. R. Mucopurulent Tubotympanic In fections  Kubie, L. S. Forced Drainage for the Treatment of Meningitis Secondary to Ear and Sinus Infections	17 18 18 29	Brain and Its Coverings, Cranial Nerves RUSSFLL, W. R. The After Effects of Head Injury POPCH, P., and Stuffl, L. Adenomata of the Hy pophysis. The Roentgenological Appearance of the Sella Turcica ADSON, A. W. The Operability of Brain Tumors  Spinal Cord and Its Coverings  STERN, E. L. The Relief of Intractable Pain by the Intraspinal Injection of Alcohol  I.E., A. The Surgical Treatment of Syringomyclia  Peripheral Nerves  Bergstrand, H. A. Malignant Tumor of the Left Tibial Nerve	23 23 23 24 24
Nose and Sinuses  COOPER, K. G. Plasmocytoma and Rhabdomyoma of the Paranasal Sinuses. Pathological and Sur- gical Considerations, Report of Cases.	tg	SURGERY OF THE CHEST Chest Wall and Breast	
Mouth	·	TASSI, D Acute Purulent Mastitis During Lacta-	26
PERUSSIA, F Radiotherapy of Cancer of the Mouth	19	MOULO CUET DOLERIS, P The Diagnosis of Cancer of the Breast	26
Pharynx		Trachea, Lungs, and Pleura	
BAILEY, C W Modern Surgery in Diphtheria, Observations on 6,011 Cases	19	Portenger, F. M. Non-Operative Versus Operative Measures in the Treatment of Pulmonary Tuber- culosis	26
MAES, U, BOYCE, F F, and McFetreioge, E. M		Wood, H. G Cystic Disease of the Lungs	26 27
Hyperthyroidism in the Negro, with an Analysis of Seventy-Three Cases	20	HEUER, G J The Development of Lobectomy and Pneumectomy in Man	27
CATTELL, R. B Eye Complications in Exophthalmic Goiter	20	Heart and Pericardium	
ROUSSY, G., HUGUENIN, R., and WELTI, H. The Histological Str. cture of the Thyroid Remaining After Cure of Basedow's Disease by Subtotal Thyroidectomy	21	CUADRADO, F Wounds of the Heart  LASCANO, J C, and VALENZUELA, J R The Clinical Syndrome of Short Neck and a Very Rare Mal- formation of the Heart in a Newborn Infant	2S 61
		retingenent of the resit in a tickboth might	UI

20

IJ u

### Macelleners

COLETTI, D. A. Traumatic Lacenation of the Dea-phragm. Hernia of the Stomach and Spiern. CREATERING and DARMANIANO Intercental Remis of the Large Intentine of Spontaneous Origin

HARDMOTON, 5 W Surgical Treatment in Fourteen actionus, 5 W Surpout Treatment in Faurteen Cases of Machasthad or Intrathoracic Percentual

# SURGERY OF THE ARDONES.

# Abdenies! Wall and Peninsense.

SCHARR, W. Late Results of Radical Operation for MEATER, 5 H Bule Pontonibe

ATTACHER, S. II. DAM PERSONNEL R. The Advantages of Large Meecle Sphitting Incident in Surgery of the Flank

PASCHOUGH The Treatment of Support Percarries. Introduction of the Use of Ukrevolet Light at Operative Scripty

# Gastre-Intestinal Tract

SEACHY 8 The Chuical Aspects of Tabercalous of the Stormach Scrione, E. A Rudy so the Cross of Death in High

Contract Obstruction Observations on Chicago

Orola, E. Dosdraul Panida and in Farticular Casa at Dosdraul Fartis at Lais Sequals of Hapaticandericologous at Confession of for State Dosdraurhaphy with Omento-

Paracy Line and Nonzeaus, M. Mahamest Temors of the Large Intraction, M. Mahamest McWaterra, O. L. Acute Directorists of the Caren Right Saint Symptoms with Reservice-hits of the Separat

Assume A. Invegmenton of Haustrans of the 22

Enwarms, H. C. Diverticula of the Ventasionn Ap-D'ACROY R and Fire, A Prendenymon Part-

VOLUME F. My Experiences with High Recog-

### GYMECOLOGY

# Utarra

Manon, J. V. Proless in the Treatment of Abnormal PRINTING L. E. Radson Thompy in Utsame Hem-Same F R The Incidence of Vagonal Fatale in

Patients with Carraconna of the Cerver

# Adzexal and Perinterine Conditions

KAND, M. E., and NORM, S. PIRMARY CATCHOOMS of the Fallopsen Tabes

Mostrocarry, J B and FARTHI, J T J The Results of Postcopentive X-Ray Therapy in Oac Actuate of componentive Askey 2 netropy in the Common of the Overy A Series of Turnity Tree #8 Miscellaneous

SERBETHEF M. G. and LEVERLIA, M. K. Blood Theadeness in Certain Gynecological Condi-

MANDON, C. The Formation of Continent Urethra in Women and the Dee of This Operation is Enstrophy of the Blackier

### OBSTRICTS. Pregnancy and Its Complexations

RECORR, R., ROSERT, R. E. RHEIDE W. R., VAROUAN, K. and Others, Decemen on the Physical and Pathology of the Princ Jones in Relation to Challesing.

Gacrack, N. Active Expansion of the Uterra, According to Manural, and its Value in the Physi-

# Labor and Its Complexions

CATRALA V and SETTIN, S.I. A hote on the Patho. Pasta, v and sermin, 6.1 A hors on the Pathors of the Cervix Uned During Labor

OBSULDED, A and TARROY II, S A Study Based on Treaty Four Years of Conservative Low

Le Lemma and Maria Twenty Sir Obstetrical Assembleme Induced all Evipus Sodom in the Materiary Respiral of Port Legal

Purperhan and its Complications

TAME, D. Acute Puralent Mantile During Lacta-

# GENTO-URINARY SURGERY

31 Adresal, Kidney and Urster Focus, F The Relation of the Physiology of the 11

Opper Utrostry Tract to Elemention Urography GREAT, J. B. and Macroscan, S. F. Cancer of MOGERANIANA, A. Unclemente

Bledder Urethra, and Penis Marica, C The Formation of Continent IV in Woman and the Use of The Open \$7

PRABCINGS. F. Technical Note on of Foreign Body from the Natural Route

## Gentlel Organia

I7

Mossow, A.C. and Sumple, J.E. Confirmmenton of the Ha Prostatactomy

FRANCESCHI, E A Contribution to the Study of		SURGERY OF BLOOD AND LYMPH SYSTE	CMS
True Prostatic Calculi	45	Blood Vessels	
JAMES, T G I, and MATHESON, N M Observations on Carcinoma of the Prostate	45	OCHSNER, A, and MAHORNER, H The Comparative Value of Intravenous Sclerosing Substances	54
MINTZ, E R, and Smith, G G Autopsy Findings in 100 Cases of Prostatic Cancer	45	Piccagui, G Traumatic Thrombosis of the Right	3,
ABERLE, S B D, and JENKINS, R H. Undescended Testes in Man and Rhesus Monkeys Treated	73	Axillary Vein	54
with the Anterior Pituitary-Like Principle from the Urine of Pregnancy	45	Blood, Transfusion	
RUBINSTEIN, H S The Production of Testicular Descent with the Water Soluble (Anterior Pitui-	46	SERDUKOFF, M G, and LEVISKAIA, M K Blood Transfusion in Certain Gynecological Conditions Mauro M Arthritis in Hæmophilia A Contribu	38
tary-Like) Fraction of Pregnancy Urine HENLINE, R B The Differential Diagnosis and Treatment of Tumors of the Testicle	46 46	tion on Its Pathogenesis, Clinical Aspects, and Treatment	50
CECCARELLI, G Malignant Tumors of the Testicle Histopathological and Clinical Considerations	47	Nordenson, N. G. Quantitative Histological Studies of the Normal and Pathological Bone Marrow	55
Robertson, J. P., and Gilbert J. B. Coexistent Cancer and Tuberculosis of the Testicle Case	7/	MALIJSEV, B The Pathologico-Anatomical Changes in the Organs Following Hæmolytic Shock	55
Report and Complete Review of the Literature Gilliard, A A Contribution on the Radiotherapy	47	WEDDELL, A G, and GALE, H E D Changes in the Blood Sugar Level Associated with Surgical	
of Seminomata	59	Operations	61
SURGERY OF THE BONES, JOINTS, MUSCL	ES,	SURGICAL TECHNIQUE	
TENDONS	E+.	Operative Surgery and Technique, Postopera Treatment	ative
Conditions of the Bones, Joints, Muscles, Tendons,		COLLER, F A, and MADDOCK, W G Water Balance	
Fraser, J Acute Osteomyelitis Gamboá, M Sclerosing Ostcomyelitis	48 48	in Surgical Conditions	57
BERNARDINI, R. Roentgen Examination of Brodie's Chronic Bone Abscess	48	Koch, S. L. Burn Contractures of the Axilla	58
BONOLA, A. The Clinical, Roentgenological, and		Anæsthesia	
Histological Picture of Dyschondroplasia  MAURO, M. Arthritis in Hæmophilia A Contribution on Its Pathogenesis, Clinical Aspects,	49	LE LORIER and MAYER Twenty-Six Obstetrical Anasthesias Induced with Evipan Sodium in the Maternity Hospital of Port Royal	43
and Treatment	50		
Milch, H So-Called "Primary" Tuberculosis of Muscle	50	PHYSICOCHEMICAL METHODS IN SURGE	RY
Bravo y Diaz Cañedo Malacias of the Navicular Bone of the Wrist	50	Roentgenology	
ZAMPETTI, M Acute Osteomyelitis of the Ribs	30	PERUSSIA, F Radiotherapy of Cancer of the Mouth	19
Caused by Ordinary Pus Cocci UHRMACHER, F Variations of the Skeleton of the	51	PUECH, P, and STUHL, L Adenomata of the Hypophysis The Roentgenological Appearance of the Sella Turcica	23
Foot as a Basis of Foot Disorders	51	MONTGOMERY, J B, and FARRELL, J T, JR. The	23
Surgery of the Bones, Joints, Muscles, Tendons,	Etc	Results of Postoperative X-Ray Therapy in Carcinoma of the Ovary A Series of Twenty-	•
Knee Joint Arthrotomy of the	52	Two Cases Fucus, F The Relation of the Physiology of the	38
Phary	3-	Upper Urmary Tract to Elimination Urography	44
BAILEY, es and Dislocations Obse C R. The Healing of Fractures, Its In-		BERNARDINI, R. Roentgen Examination of Brodie's Chromic Bone Abscess	48
Neck T, COPENHAVER, W, and AREY, L	52	Bonola, A The Clinical, Roentgenological, and Histological Picture of Dyschondroplasia	49
MAES, U, BOYG, ve Study of the Rate of Healing in Hyperthyroids. Normal Rate of Healing	52	Buisson, M Combination of Roentgen Therapy and Moist-Heat Therapy in Lupus Vulgaris	59
of Seventy-Threed MOORE, J M The Influence CATTELL, R. B Eye ss of Calcium and Phosphorus		GILLIARD, A A Contribution on the Radiotherapy of Seminomata	59
Roussy, G, Hugue Histological Str. I Subsequent Changes in the	53	ALBERTINI, A. VON The Presence of Microcytes in Round Celled Sarcomata as Histological Evi dence of the Sensitivity of These Tumors to	
After Cure of Isslocated Hip Reduced by the Thyroidectomy thod	53	Irradiation  Molesworth, E H \( \lambda \) Ray Necrosis	59 59
			-

#### Redien

PRAIRCE L. E.; Radion Through in Uterine Hemorthages of Besign Orage:

#### Miscellapeous

Panisoro, H.: The Treatment of Supperstive Padtonith. Introduction of the Use of Ultraviolet Light in Open tive Sergery

#### MISCELLANDOVS

Chrical Ruttine—General Physiciagical Conditions Lancato, J. C., and Varriscorra, J. R. The Cholest Syndrome of Short Neck and Very Bare Malformation of the Heart is a Newborn Indext

COLERO, A.: Sacrecucygeal Cherdona.
WEDGELL, A. G., and Gatz, H. E. D.: Changes in
the Biood-larger Level Associated with Songical
Operations.

#### Ductime Girade

FREEZE, K.: A Case of Extragental Chorlosepifo thebreas is a Male with Peckley Astunor Pituliary Lobe Reaction

#### Surgical Pathology and Diagnosis

COTEST, C. W. J. Errors of Surgical Diagnosis. A Study of the Records of the Pirst Surgeal Devinon of the Economic Hospital Covering. Puriod of These Years

# **BIBLIOGRAPHY**

Surgery of the Head and Neck		Genito-Urinary Surgery	
Head Eye Ear Nose and Smuses Mouth Pharynx.	64 64 65 65 66	Adrenal, Kidney, and Ureter Bladder, Urethra, and Penis Genital Organs Miscellaneous	78 79 79 79
Neck	66	Surgery of the Bones, Joints, Muscles, Tendon	S
Surgery of the Nervous System Brain and Its Covering, Cranial Nerves Spinal Cord and Its Coverings Peripheral Nerves Sympathetic Nerves Miscellaneous	67 68 68 68 68	Conditions of the Bones, Joints, Muscles, Tendons, Etc. Surgery of the Bones, Joints, Muscles, Tendons, Etc. Fractures and Dislocations Orthopedies in General.  Surgery of the Blood and Lymph Systems	80 82 82 83
Surgery of the Chest Chest Wall and Breast Trachea, Lungs, and Pleura Heart and Pericardium Esophagus and Mediastinum Miscellancous	68 68 69 69	Blood Vessels Blood, Transfusion Reticulo-Endothelial System Lymph Glands and Lymphatic Vessels Surgical Technique	83 84 84 84
Surgery of the Abdomen		Operative Surgery and Technique, Postoperative Treatment.	84
Abdominal Wall and Peritoneum Gastro-Intestinal Tract. Liver, Gall Bladder, Pancreas, and Spiecn Miscellaneous	70 70 73 74	Antiseptic Surgery, Treatment of Wounds and Infections Anæsthesia Surgical Instruments and Apparatus	85 85 86
Gynecology		Physicochemical Methods in Surgery	
Uterus Adnexal and Periuterine Conditions External Genitalia Miscellaneous	74 75 75 75	Roentgenology Radium. Miscellaneous	86 87 87
Obstetrics		Miscellaneous	
Pregnancy and Its Complications. Labor and Its Complications. Puerpenum and Its Complications Newborn Miscellaneous	76 76 77 77 77	Clinical Entities—General Physiological Conditions General Bacterial, Protozoan, and Parasitic Infec- tions Ductless Glands Surgical Pathology and Diagnosis	88 88 88 88

### AUTHORS OF ARTICLES ABSTRACTED

Aberha, S. B. D. 45
Adona, A. W. 3
Againson, S. A. 8
Balay, C. W. 9
Bengarand, H. 9
Cathaland, H. 9
Dennelloon, H. 7
Dennelloon, H. 7
Fenotag, E. 9
F

| Topics | 1 | Top

Le Lorier 43
Lorinkafa, M. K. 58
Loy A., 64
Macmiller, S. P. 64
Minddock, W. O. 57
Mines, U. 60
Maharmer, H., 54

Mily Rep. 3 55
Maron, G. 19
Maron, H. 3 1
Maron, A. G. 4
Maronette, E. 1 1
Moron, A. G. 4
Moron, J. 11
Moron, A. G. 4
Moron, M. 3 1
Moron, A. G. 4
Moron, M. 3 1
Moron, A. G. 4
Maron, M. 3 1
Moron, A. G. 4
Maron, M. 3 1
Moron, A. G. 4
Maronette, M. 3 3
Maron, M. 3 1
Maron, M. 3 1
Maron, M. 3 1
Moron, A. G. 4
Maronette, M. 3 3
Maronette

# INTERNATIONAL ABSTRACT OF SURGERY

JANUARY, 1935

# COLLECTIVE REVIEW

# GASTRODUODENAL ULCERATIVE DISEASE—A REVIEW OF THE 1933 LITERATURE

SAMUEL J FOGELSON, M D, MS, FAC.S
From Department of Experimental Surgety, Northwestern University Medical School

TO a major degree the extensive literature of 1933 on gastroduodenal ulcerative disease consists of an evaluation of results obtained during the last five or more years from particular surgical procedures. A number of surgeons compare their results with those obtained with various types of operations used in the past. Many valuable conclusions were arrived at from these critical analyses. The information gained from the comparisons with regard to the mortality and the morbidity, the degree of success or failure, may be coordinated so that one interested in the subject may obtain practical guidance in the surgical therapy of gastroduodenal ulceration.

This guidance is of special value when it is based on the experience of such men as von Eiselsberg (27), Leriche (66), von Haberer (46), Pribram (81), Finsterer (33), Konjetzny (62), Hurst (57), Babkin (5), Ivy (58), and other surgeons and investigators who placed the treatment of gastroduodenal ulceration upon a scientific basis and are now reviewing their results so that a more effective surgical therapeusis may be evolved

It is unfortunate that there should still persist marked differences of opinion not only as to the type of surgical intervention, but also as to the proper time for intervention. On the basis of this divergence of opinion the schools of therapy may be divided into the radical and the conservative. The radical school of surgical therapy is of Mid-European origin and includes most surgeons of Continental Europe. The conservative school is represented by English and American clinicians.

The problem of deciding when and what surgical intervention is indicated is difficult especially because both schools report excellent end-results Conservative clinicians condemn radical surgery as being associated with too great a mortality while radical clinicians claim that in cases treated by conservative surgery the incidence of failure and recurrence is excessive. It is possible that the difference in the results of the 2 schools may be explained by a difference in the types of lesions treated and in the social status of the patients, which latter has an influence on the postoperative dietary However, if the entire 1933 output of literature may be evaluated without a preformed opinion, it becomes apparent that, without as yet any marked uniformity of opinion, both schools are approaching in practice a mid-ground The radical surgeon is perhaps becoming less radical and the conservative surgeon has learned that in properly selected cases radical surgery is ultimately truly conservative

Von Haberer, one of the foremost exponents of radical surgery in the treatment of gastroduodenal ulcerative disease, has published 2 extremely valuable articles. In one (46) he describes his technique of gastric resection and in the other (44) he considers surgical therapy in general, emphasizing the goal to be achieved by resection and reporting his results.

The article on technique describes his method of procedure which was developed in 2,788 cases of gastric resection in which a Billroth I operation was done 1,799 times, the Billroth II operation

881 times, and the sierve resection 128 times. Of the 1 799 cases in which the Billroth I operation was performed an end-to-end anastomosis be tween the stomach and deodenum was done in 1 572 and an end-to-side anastomosis in 207 on Haberer considers the Billroth I method the operation of choice. He occasionally modifies it into a terminolateral anastomosis in which the end of the stomach is anastomosed to the para decendens duodeni. When the Billroth I resection does not seem feasible, he performs the Billroth II resection. This is a terminolateral anastomous (the end of the stomach into the skie of the leiunum) preferably antecolic, with the addition of Braun's entero-anastomosis. Occasionally the Billroth II operation is performed by the retrocolic route with the use of the felunum.

After ligation of the blood vessels and separation of adhesions, the client II penetrating is care fully separated from the adjacent organ into which it has penetrated. The dondemen is then mobilized and the duodenal blood vessels are ligated. Extreme care is taken to prevent injury to the pancreas. If the bed of the after consists of the pancreas, the stomath of udodenum is dissected free with a custery and the exposed uteried is loddinated. To be certain that an uter in the posterior duodenal wall is not overbooked, the use of clamps on the duodenam is avoided Healthy duodenal manous is exemitial to the Billroth Institute of resection.

Many other essential details of technique are described and emphasis is placed upon the harmonache row of scatters figuring the vessels in the gasture achievement. The storm in this Biffersh I anastomods should be at least. finger-breadths in diameter which in on Hisberre a opinion is adquate. A somewhat limitar technique is used in the Billioch II operation

It is interesting to note the emphassa planed upon the type of anaethesa. Whenever possible, some form of lumbar or spenal anaesthesia is used. This may be supplemented with block anaesthesis is of the abdomnal wall, bybatchnic anaesthesis is supplemented by the intra enous injection of corpus.

In discussing his results and the factors which gide him in the selection of the type of operation for each case, on Haberer says that, in his opinon, singleal therapy should be resorted 1 only in cases which do not respond to conservative meaures Jejimostomy as well as local evensor of the niter in a been abandoned. The best surgical therapy consists of a resection, preferable as esterns to one including the pylorius and the autumn The aim of so extremive a resection is to eliminat the "so-tailed chemical phase of hydrochiane acid screedow which, in von Haberer a opinion, is responsible for most recurrence. Von Haberer believes that resection of the ps/sox giands is esential for removal of the stimulation of the aridproducing components of the residual gastric segment.

While the results obtained with the Biffrods I and Biffrods II and Biffrods II reservities are similar to Biffrods II reservities are similar to Biffrods II reservities. In over the Biffrod III reservities. However the Biffrod to the Biffrods III reservities, in which the end of the storage his anastromesed to the para decendents of the daode-num with bifrod closure of the duodenum is easier to perform than the Biffrod it operation.

With regard to extensive resection, wen fabreer makes the interesting comment that the ultimate results depend not only upon the technique but also upon the social states of the patient. Its states that the postoperative mortality of various surgeous ranges from a to 15 per cent. The average postoperative mortality is 5 to 6 per cent and the average incidence of postoperative recurrence of legimal there of 6 to 9 per cent. Postoperative chronic dyspepsis, mallimetion of the penerest, and the "perculsar secondary gastric assemblar" are more frequent after the Billiroth II than after the Billiroth I resection

In order to reduce the incidence of unsatisfactory postoperative results the diet should be recufated carefully for at least a year after the operation. Extensive resection should not be at tempted when the anatomical conditions make it too difficult, as in ulcers of the posterior wall of the pare decendens duodenl, involvement of the billiary ducts in the inflammatory process, or deep penetration into the pancreus. In the presence of such conditions a smaller palleative operation is advisable. Gastro-enterostomy may be considered, but von Haberer believes that after longer periods of observation the end-results of this procedure will be found less miniactory as from as to so per cent of the patients subjected t it will still have symptoms due to an unhealed ulcer and from z to 24 per cent will develop a gastrojejunal ulcer He regards gustro-enterostomy as an opera tion of necessity rather than of choice.

Pyleric evaluation is mentioned only to be condemond because it does not remove the pyloric glands which horte acid garatic accretion. Von Haberts believes that in cases of moor-rescutals duodeand later resection for extinction of the is ston should unclude the pylorus and the antum-While such a resection gives better results than gastro-cutrostomy. he prefers the latter procdure for non-resectable duodeand ulcars because a secondary operation for gastrojejunal ulcer is much easier after gastro-enterostomy than after resection for exclusion

He has employed resection for exclusion of a duodenal ulcer 12 times. Three of the patients developed a new peptic ulcer, and 3 have died since the operation, 1 from pneumonia, 1 from hæmorrhagic inflammation of the intestine, and 1 from a subphrenic abscess.

For profuse hæmorrhage, von Haberer advocates a blood transfusion followed by resection because palliative surgery does not assure against subsequent bleeding. If resection proves extremely difficult, he merely ligates the blood vessels leading to the lesion. This ligation may be followed later by a more extensive surgical procedure.

Perforation is, of course, operated on immediately Whenever possible a resection is performed. If immediate resection is contra-indicated because of the patient's condition, the perforation is closed and resection is delayed until later. The operation of choice is the Billroth I resection, but when this cannot be performed a Billroth II resection is done. In every case of perforation extensive resection should be the rule and an indirect attack on the ulcer-bearing area should be avoided if possible. However, while the surgical technique and the extent of the resection are important, they are not the sole factors determining the end-results of radical surgery.

In the cases of 57 patients operated on by von Haberer and studied later by Bremer and Held (16), 55 gastric resections of the Billroth I and Billroth II types were performed A satisfactory follow-up study was possible in 48 Of extreme interest was the absence of motor disturbances and of abnormal roentgenological signs as contrasted with the frequency of subjective complaints The gastric emptying time was radically reduced in all of the cases, but was more rapid after the Billroth II than after the Billroth I operation Of the 48 patients, 20 did not observe any diet and remained in good health, 14 adhered to a diet and had no subjective complaints, and 14, who were too poor to follow any type of diet, failed to gain weight and complained of symptoms In the cases of 3 unemployed patients living on an inadequate diet and indulging in tobacco and alcoholic drinks the symptoms ceased after dietetic management. Therefore, of the total number of patients, 77 per cent became symptom-free

It is thus apparent that even after an adequately radical surgical procedure the results are best when a protracted postoperative medical regime is followed

Finsterer (33), in a report on over 2,000 cases in which gastric resection was performed, describes his technique in detail and reviews his results His mortality in 1,658 gastric resections was 5 per cent Of the gastric lesions, 95 8 per cent were healed and 4 1 per cent were improved Of the duodenal ulcers, 94 6 per cent were healed, 19 per cent improved, and 33 per cent unimproved Of the gastrojejunal ulcers, 75 6 per cent were healed, 7 1 per cent improved, and 16 3 per cent unimproved Certainly such excellent endresults should be the objective of every surgeon in the treatment of gastroduodenal ulcerative disease However, it is interesting to note that Finsterer does not condemn resection for exclusion in cases of non-resectable duodenal ulcer, a fact indicating a trend toward greater conservatism at least as regards this type of lesion

Finsterer is of the opinion that in cases of non-resectable duodenal ulcer rapid and complete healing of the lesion will take place after an adequate resection for exclusion provided retrograde filling of the duodenal stump does not occur. He prevents retrograde filling of the duodenal stump by a Hofmeister-Finsterer anastomosis. However, it is important to make the resection so extensive that only the cardiac third of the stomach remains. A Braun entero-anastomosis is unnecessary as remaining pyloric glands do no harm.

From his experience Finsterer has come to the conclusion that although resection of the antrum has a mortality of 13 8 per cent whereas the mortality of resection with preservation of the pylorus is only 3 1 per cent, resection for exclusion is justified as it is followed by permanent healing in 91 3 per cent of the cases. In his opinion the endresults depend, not upon the resection of the antrum, but upon the extent of the gastric resection. The pylorus should be resected only when the duodenal stump can be properly closed.

Enderlen and Zukschwerdt (30) recognize indications and use a technique similar to the indications recognized and the technique employed by von Haberer They likewise condemn jejunostomy, stating that it is followed in most cases by new ulceration They state that gastro-enterostomy is indicated only for elderly patients, particularly women Conservative methods do not give permanent healing. Pyloric exclusion without resection is to be condemned as it has a higher incidence of postoperative recurrence than even gastro-enterostomy which, according to their statistics, is followed by a marginal ulcer in 50 per cent of cases The surgeon has a choice only between a Billroth I and a Billroth II operation Enough of the antrum and the fundus should be

removed so that only a third of the normal stom ach remains.

As most of Enderlen's and Zukechwerdt a patients in the Heidelberg CEnic had a non-resect able nicer of the doodenum, it was necessary as a rule to choose between gastro-enterestomy and a resection for exclusion. An article by Zuk schwerdt and Eck (103) reports the results of 107 resections for exclusion and 71 gastro-enterostomics performed during the last twelve years. The mortality of gastro-enterostomy was a 8 per cent and the mortality of resection for exclusion 4-7 per cent. One of the patients treated by gastro-enterestomy subsequently died of perforation and another died of hieroarrhage. Only so per cent of the patients subjected to gastroenterestomy were considered cured, whereas 8 c.y. per cent of those subjected to a resection for exclusion were restored to health. Of those treated by gastro-enterestomy, 423 per cent had post operative symptoms, whereas of those treated by resection for exclusion, only 3 per cent had post operative complaints. These results have definitely convinced the Heidelberg surgeons that resection including the gastric motor" antrum is the operation of choice.

It is interesting to note that these surgeons find that resection does not control all of the symptorns. The pensistence of symptoms is attributed to a residual enstrites. However the latter must not be unduly emphasized ance psychic factors play an important part in the causation of symptoms in cases of picer a fact suggesting that it

might be advisable to refer neurotic nationts to a

psychiatrist after adequate surgery The report of the von Eiselsberg (Imic (25) on s 766 resections performed between 1901 and 1930 should prove of hiterest to every surgeon. The methods used are in general almilar to those of you Haberer and Funtterer but the details of various steps ment consideration. The type of local ansesthesis is described. The position of the common duct a carefully determined to award its injury In the description of the operation the authors roview in detail the ligation of the important arteries, the preparation of the stomach and duodeours for resection, the closure of the directenal stump the selection of the opening in the mesocolon, the making up of the first jejunal loop, the execution of the anisstomoru, the steps required to prevent leakage at the angle between the gastric stump and the jegunum, and the closure of the opening in the mesocolos. All are considered in a very thorough manner making this publication valuable not only to the novice but also to the expenenced surreon

The concise report of Emerson and Cairer (sq) on s.400 consecutive resections in Verebeley Clinic, Budapest, is important because emphasis is placed upon the use of a sewing clamp after ligation of the blood vessels, inclaim between a rows of metal sutures to prevent escape of the gastric contents, an anistomosis between the stomath and feinnum in which the lower corner of the stomach is resected, and the introduction of the anastomotic sutures below and through the mesocolors. Resection of the lower stomach corner has been done by I erebeley since 1923 and is credited for the reduction in the mortality in all cases of

gustric resection from 1.8 to 4.8 per cent. Of the patients followed up good results were obtained in 1,054 (81.4 per cent) fair results in 398 (16 6 per cent) and poor results in 48 (s per cent) After palifative operations such as er cision with gastro-enterostomy good results were obtained in 40 per cent, fair results in 33 per cent, and poor results in 18 per cent. The conclusion drawn from these results over a nine-year period is that gastric resection or radical surrery per formed with the technique described have been found to be more estimactory both in regard to mortality and permanency than are the results of

any of the other methods of treatment. This Continental preference for resection has to a certain extent been followed by the Scanding vien countries. Pallin (72) says. In S exicu the development has on the whole followed that of Germany Thus, during the last decade there has been a decided shift from gustro-enterestomy to resection. At the present time resection would seem to be the operation of choice for most surgeoms at the harger housitals, yet by no means all of them.

In a held review of the American and German literature, Pullin quotes Walters and Balfour as stating that the peptic ulcers seen in European Clinics differ from those seen in the United States in that they are frequently more extensive, more often multiple, and associated with a greater degree of greatritis, this fact explaining the difference in the attitude of American and European sur-FERRIL

Pallin cites the mortality of von Haberer and Plasterer which is 48 per cent, but quotes Gulcke as stating that the average mortality must be twice as great. He mays that Finsterer's gastric resection for exchange has definite men't and has galoed recognition by French and German and geom although it is not much used in England.

During the just ten years Pallin has operated on og patients with duodenal ulcer and has reexamined 38 of them from two to eight years after the operation Of the latter, 25 were treated by radical resection, 16 by palliative resection for exclusion (retention of the pylorus), and 17 by gastro-enterostomy The results of palliative resection in which the pylorus was preserved were in no respect inferior to those obtained by the more radical resection, a fact confirming the opinnor of Finsterer and refuting that of von Haberer Of the 25 Patients treated by radical resection, 13 were completely symptom-free, 7 were greatly benefited, 2 were slightly benefited, and 3 had poor results Of the 16 patients subjected to a pallative resection, 10 were rendered completely symptom-free, 5 were greatly benefited, and I symptom-rece, of the 17 patients treated by had a poor result gastro-enterostomy, 10 were rendered completely gastro-enterostomy, 10 were renucicu completation in was symptom-free, 5 were greatly benefited, 1 was symptom-free, and 1 had a poor result. There symptoms were greatly benefited. slightly benefited, and I had a poor result were 9 postoperative deaths—3 secondary to radical resection, 2 following the palliative resec-

Palin discusses especially the postoperative tion, and 4 after gastro-enterostomy precipitate emptying of the stomach to which he attributes many of the unsatisfactory postoperative results following gastro-enterostomy and the Billroth II operation He emphasizes the impossibility of determining why "rush" emptying occurs in one case and not in another From his experience in the 109 cases reviewed, he conexperience in the 109 cases reviewed, he con-cludes as follows "It is scarcely necessary to mention that the Billroth I operation, as far as 'rush emptying' is concerned, is superior to other methods. On this ground, the Billroth I operation proving one of the adventogra of radical recontinuous proving one of the adventogra of radical recontinuous proving one of the adventogra of radical recontinuous proving one of the adventograph of the adventogra tion proves one of the advantages of radical resection over palliative resection. But in comparison with gastro-enterostomy, which is best reserved for more elderly people with pylone stenosis, I am entirely in agreement with Finsterer's opinion regarding the decided preference for the palliative

Germanic teachings have in general dominated the French surgeons in the surgery of gastro duodenal ulceration Leriche (66) is guided by resection' Finsterer's teachings in his surgical therapy objective in the treatment of gastroduodenal ulcerative disease is the removal of enough of the acid-secreting portion of the stomach to produce achlorhydra In 225 cases operated upon by him in the period from 1925 to 1932, he performed 129 gastro-enterostomies and 96 resections Of the 96 resections, 14 were performed for duodenal ulcer Leriche reserves gastro-enterostomy for small duodenal lesions which lead to pylone stenosis. He states that resection is the operation of choice for lesions which have perforated into adjacent organs, ulcers of the lesser curvature, ulcers high

in the stomach, and calloused large gastric or duodenal ulcers. The only argument against ensive resection is its surgical mortality. The end-results of extensive resection are far superior to those obtained with gastro-enterostomy. In the goard reviewed cases in which resection was doned the goard reviewed cases in which resection was doned there were 14 deaths, and in 13 of the 14 fatal there were 14 deaths, and in 13 of death to have there were showed the cause of death to have cases, autopsy showed the cause of reduced the surgical technique. Pyloricases, autopsy showed the surgical technique and antrumectomy do not achieve the section and antrumectomy and in Leriche's cases the ectomy and antrumectomy. The latter requires the goal of reduced acidity. The latter requires the additional goal of reduced acidity. The latter requires the goal of reduced acidity. The latter requires the additional goal of reduced acidity. The latter requires the goal of reduced acidity are goal of reduced acidity. The latter requires the goal of reduced acidity are goal of reduced acidity.

mosis is performed

In spite of all these data favoring resection,
In spite of all these data favoring resection,
In spite of all these data favoring resection,
It is preferred to the favoring resection,
It is performed to the favoring resection,
In spite of all these data favoring resection,
In spite of all the spite of all the

tomy was performed on 129

The results obtained in the surgical treatment
of gastroduodenal ulcer and the conclusions based
on the cases of such ulcers occurring in the
kans are found in the report of Fuerst (40)
castro-enterostomy is condemned as it fails to
gastro-enterostomy is condemned as it fails to
effect a cure in from 40 to 50 per cent of cases
effect a cure in from 40 to 50 per cent of Billowers
whereas resection is followed by healing in 90 per
whereas resection is followed by healing in 90 per
the ultimate results following the Billowers
is roth I method are better than those following, as
roth I method are better than those following, as
her been used, the operation of choice being, when
her been used, the operation of choice being, a Billroth I resection
ever possible, a Billroth I resection

Of interest to surgeons who stress the acid factor in gastro-intestinal ulcerative disease will be the report of Kemal (59), who, in 314 surgically treated patients, found hypo-acidity instead of hyper-acidity Kemal is of the opinion that, at least in Turkey, acidity is of minor importance He never observed malignant changes, perforation, or fatal hamorrhage after a gastro-enteros-Marginal or postoperative peptic ulcer occurred in only 2 Cases, in both of which there was hypo-acidity Of Kemal's cases treated by gastro-enterostomy, the operation was followed by death in 6 per cent, permanent healing in 82 per cent, and improvement in 13 per cent. Of the cases in which resection was done for a large calloused ulcer and malignancy was suspected, the operation was followed by death in II 3 per cent and permanent healing in 95 per cent.

and permanent nearing in 95 per cent.

In comparison with these Continental results,

In comparison with these Continental results,

Gaither (42) reports on 100 cases collected by

means of a questionnaire sent to 500 patients and

means of a questionnaire sent to 500 patients and

evaluated by an internist who interrogated the pa
evaluated by an internist who interrogated them

tients personally in addition to studying them

physically and roentgenographically Of the cases in which gastro-enterostomy was performed, complete relief resulted in 80 per cent, whereas of the total number of cases representing the results of all types of operations, complete rebel was obtained in 72 per cent, marked improvement in 10 per cent, and no improvement in a per cent. Gaither concludes that gastrolelunal ulceration. catastrophic harmorrhage, and perforation are rare after gastro-enterostomy. The immediate mortality and the end-results of gastro-enterostomy and other conservative types of operation do not justify the displacement of conservative surgery by subtotal gastrectomy. Although the time interval between surgical forervention and examination of the nationt is not mentioned. It is note worthy that 70 per cent of the patients had been carefully following postonerative dietetic ron-

Labory (64) discusses the selection of the operative procedure for various gastric and deoderal lesions and comes to the conclusion that in the order of the best results, partial gastrectdup andoubtedly stands at the bead of the a general ocerative procedures, followed by pytoroplesty and gastro-enterostomy. On the other hand, it must be admitted also that partial gestrectomy per formed by almost any surgeon will have the highest mortality rate of any of the gustric procedures for duodenal ulcers that pyloroplasty will have the lowest mortality rate and that gastroenteroriomy will have the intermediate mortality rate, but in the king run will probably give the pomest end-results. Lakey therefore believes that the selection of operation for duodenal alcera, particularly givers which are partly or entirely retropentoneal, should be reserved until the abdomen is opened and the lesson visualized

Labey sains that be is not as enthusiastic about patro-entomotry as he was some exame, and patro-entomotry as he was some exame, and he restricted a situations not infrequently size where a satisfactory operative procedury on a given case possesses probabitive possibilities of morality, and it becomes very much better of except a less astrafactory operative procedure for expit is less astrafactory operative procedure for the investigation of the library that the invisions of patiential short with a patitude of the control of the patients of the control of the patients of the patients

Among the numerous reports on perforated peptit ulerr Graves analysis of 4,407 cases or carrieg un the German Chunc (43) is outstanding Graves stresses the danger of drawing erroseous conclusions from a study lumited to mortality statistics alone. He states that uniple closure of a

performed taken in the easiest and quicklest operation and affords the best immediate prognosis, both in most German clinics it has mealify been per formed on patients in extremely poor condition and more radical surgery is reserved for those who have been fair to good risks. Therefore the mor tality rate attending the simple operation may be very high, as in the series reported from Genves Clinic, Frankfurt-am-Mism, in which it was 3th per cent, and in the entire collected German series, in which it was 5th per cent.

In the water of terms neits of cases of perturbation of the second of the second of the control of the contro

Routine partial gastric resection for perforated peptic alter in Central European patients who are good surpost risks is fustified because

FPptic ulcers are multiple in about 30 per cent of all patients who have a perforation.

 Atrophic, hypertrophic for ulcerative gastruis is usually present in the ulcer bearing area of the stomach

3 The lesions present, particularly those in the duodenum cannot be radged by inspection and palpation alone

4 Gestre resection is performed by most German and Austrian trained surgeons in from forty to seventy five minutes

5 The mortality rate in the cases of patients who are selected good rake is not over 5 per cent 6. Gastric resection is usually technically easier in cases of perforated often than in elective cases of peptic often.

7 The ampler procedures do not always cure the ulcer or alleviate the gastritis and are fre quently followed by recurrences of peptic ulcer or

the development of a marginal elect

Shawan (p2) reports on 227 cases of acute per forceted disochant and gastine toker in which the mortality was 24 s per cent, in contrast to the mortality of 2 s per cent in the case 775 cases in which resection was done. In 185 (type cent) of flowers a senior of cases, suspite closure of the per for the was the contrast of the per contrast for the contrast of the contrast of the performance of the contrast of the release of the contrast Country flow pastro-enterosition, was done in 22 cases with a sightly higher mortality.

Comparison of them a groups is universing in that the more conservative measures feeled to decrease the immediate meriolity whereas it may be assumed that the more radical surgical technique will be followed by better end-results.

Rousselin (86) has made some interesting observations on gastroduodenal perforation He has noted that the mortality is lowest in perforation of the duodenum and is greater the higher the site of the perforation in the gastro-intestinal tract Of his series of cases, the mortality was 155 per cent in those of duodenal perforation, 51 5 per cent in those of perforation in the pylorus, and 71 4 per cent in those of perforation in the lesser curvature This variation in mortality may be secondary to the fact that the size of the perforation increases from the duodenum unward. After discussing the usual factors of perforation, such as the time elapsing between the perforation and surgical intervention and the age and general condition of the patient, Rousselin states that he obtained a cure in 70 per cent of his cases, but that the best end-results were obtained in those in which there were no ulcer symptoms prior to the perforation

In contrast to the conclusions of Graves, Rousselin, and Shawan, are those drawn by Black of England (10) on the basis of 50 cases of perforated gastric and duodenal ulcer operated on in the period from 1927 to 1931 Black concludes that (1) the simpler the operation the better, (2) the methods and skill of the surgeon are not of great importance, and (3) the time elapsing between the perforation and operation is of chief importance. The last conclusion will be vigorously contested by many experienced Continental surgeons who believe it is not the time factor but the condition of the patient which should guide the surgeon

Scotson (80) reported on 181 cases of perforated peptic ulcer in which the mortality was 17 per cent He has confirmed Rousselin's observation that the mortality is greater the higher the site of the perforation in the gastro-intestinal tract. He believes it is explained by "the likelihood of serious hæmorrhage preceding perforation as well as the larger size of the perforation and greater amount of infectivity of the extravasated contents, and also the difficulty, in many cases, of making a satisfactory closure of the perforation in a large gastric ulcer" Of significance is the fact that none of his patients with duodenal ulcer who were treated by suture and gastro-enterostomy had any severe postoperative symptoms and in the patients who followed instructions regarding diet, hygiene, and the use of alkaline powders the end-results were as a general rule very satisfactory regardless of the type of surgery

Much of value to both the internist and the surgeon may be obtained from an article on hæmorrhage by Allen and Benedict (1) During the last twenty years 1,804 patients with duodenal ulcer were treated in the Massachusetts General Hospital. Of these, 628 either gave a history of gross bleeding or, while under observation, lost blood in amounts recognizable by macroscopic study Of these, 176 were classified as moderate bleeders. the blood loss not being sufficient to reduce the red blood cell count to 3,000,000 or the hæmoglobin to below 70 per cent Two hundred bled sufficiently to produce a marked secondary anæmia Of these, 62 bled gradually over a period of weeks and 138 had a hæmorrhage coming on with sufficient suddenness to produce prostration, shock. and marked anæmia. Therefore 22 per cent of the patients with duodenal ulcer complicated by hamorrhage could be classified in the acute massive hamorrhage class Twelve of these patients bled to death before operation could be performed, and 8 were operated on in a depleted state without success The mortality in this group was therefore 14 5 per cent. In nearly every fatal case it was possible, either at autopsy or at operation, to demonstrate the erosion of a large artery The striking difference between cases of apparently the same severity on admission in which bleeding ceased spontaneously and those in which the bleeding coninned to a fatal termination was the average age In the fatal group the average age was fifty-six and three-tenths years while in those with recovery it was forly-one and eight-tenths years. It has been more or less commonly believed that patients are more likely to recover after one attack of severe bleeding than after several attacks, but as in 65 per cent of the fatal cases reviewed death occurred during the first period of bleeding, it is evident that the number of hæmorrhages is not a reliable criterion of the prognosis

Of the 20 patients who died, 12 had not bled previously, 7 had bled only once before, and 1 died during the fifth attack of bleeding. There was little evidence that transfusion had had any relation to continued or marked bleeding. Five patients died of hamorrhage without transfusion. Of the patients who bled out several transfusions in a period of from one to five days, all died whether operated upon or not.

Blood was given the patient only on his failure to hold his own with a systolic blood pressure above 70 mm. Hg. To eliminate the danger of rapidly elevating the blood pressure, the blood should be given slowly in amounts of about 300 c. cm. In many cases in which this treatment has been given there has been no further scrious

INTERNATIONAL ABSTRACT OF SURGERY bleeding. After the patient is safely over the osculary. After the patient is safety over the scale of hemorphage (from five to seven property consideration of the positive consideration of the constant of the co

acute state or memorrhage (from rive to serve days) blood translosion will materially shorten a negatas convaignment.

Operation should be considered and under

Opening should be considered and under the stage percentage of cases in which the prefer appears for the benefits of transfactors. factors rapady states too penerite or construction.

When a patient enters a hospital in a depleted ty nen a passent entera a nonvant in a corporati alate or through inlataten judgment is altered to state or invogen ministen juogiment in autoriu to reach a precurious condition, either his condition rante a forcations common, course no consuma may be looked upon as hopeion or a horoic at may be made to give his life. In the so lampt may be made to save an me on one as a said eases terries ed by Allen and Benedict a said. fast case reviewed by Alica and Receiver waters followedling and lete surgery were both fred. Allen and Receiver describe a surgery technique of reand incident describe a surface technique or to-

action pits control of bleeding and emphasisms the eccentry for done perspected to capte with heavy large to a typical measure. In the period from 1911 to 1935, so cases of As the period from 1911 to 1914, so cases to make or have or have from perils there were admitted to the Fourth Adrical and Surgical Dinutten to the Fellevin Hospital by Hillian (43) Finding or one necessary computer by summer than the group there were 9 cases of peptic electrons. to the group times were 9 cases or points encer treated conservatively with a fatal outcome. The contains in this group, is attributed similar to mortality in ton group in accuracy and Allen the markets reported by parameter and the parameters and one me arrest measurements are contractened or committe preparation to cope with memorinated obesetta formations are being topoxed or a referent transfer area becament, or

Boguranson (2) tebuts 1st case of sounds printed areas in outcome of a spirit observed was presented areas of solutions and other control of the control bleching clear, in convolution which operation is a performed. The total mortality was dependent in the ide mortality of rather dependent, if a per cont. and the mortality of conservative treatment, so 4 per cent, and the insteady of treme state treatments are are eliminated, the postoperative mortality is are commenced, the possiperative mornally is brought down to 9 per cent. Belomman be-lieve that expectably in 6th patients with large

terra mat, especiary to our primary and autoa test personable. It has come personable actions are personable. a care monotoni e contra indicatan nomormala. gery. With regard to the age of the patient be god, that premarings is much beneat not said. one in the old then in the young

our in the old then in the young Parchet (76), die meing the treatment of ma-gare garded die meing the treatment of ma-ceasity of an accorded department the new courts of the section of the court of tenity of an accurate diagnosis because britished of the cases have no specific diagnosis and no demonstrable organic lesions, thus counts tothing the store of the indeterminate in which pecific surgery is not indicated. Ligation of a single blood read, sauro-interestory and jeimpostomy alone are inadequate. The torte effects dispersions should be the board must be comnated by continuous dub infection

Papin and Wilmorth (fo 77) discuss hemore as present the probability of designations and possible the account of designations and possible the probability of the paper of the Charles determination when an entered time constitution who bedecrease that suppose intervention is indicated only in the cases of patients with a long abor history In 11 of their critics to appen an exploration, take in the critics of herman arms a real areas money, in the critics of herman arms a real areas money, in the critics of herman arms a real areas. to the cases in which an exposition whe force that gatiro-enterostomy is of value only in creat of chinoic conjoined security, is or some only a new party free party farms on the party of the party o cases or carriers extroused recoveral process overand that pyrone cursion is or no value. In their cases in which an extensive rescribes of the story. cases on words an extensive resorring or the ston-ach and disodenam was done the mortality was to per cent

Pier cent.
Thater and Clavel (97) in a review of 73 cases, After any curver (97) in a review or 72 masses that Fundant's practice of midcal interconcerns that remains a leaves or names much reachen gives the heat cod-results. They state that apen core the next enougher to exhemit a rock areas and pendthat should have the mark to calculate and metros then is to find the supers pot such a routine practice gives unsettisfactory results. The best tempts and operated physication topological places in the person of the results are cotained by reserved touconed by re-peated blood transference. They emphasize the pecually of parallering open appreciate pro-berten orono management took emborants too tota of principality north as citativity, street and gestriffs with enough of the annil proof course and To contradiative to 10 cares of particularies of arterial origin, cases of hemorphies due to comarterial origin, cases or memorrange one to curre story states and gravity with trooting of small blood reach are best treated by pertical mea-

rea.
The churchen must remember that about 15 per cost of all patients with sastrodoodens! of the

tre disease bleed at some time during the life tre onese their seasons that 33 Per cent of those who bleed have acute managed becoming that of the who over days some manage accountings on ce tione with measure metoactinates 15 let cent was no es casargonna o open assurantement that they will die whether the treatment is medithat only was one warrow the treatment is mean-cal in surgical, that surgical intervention at the can the surgicus, that surgicus intervention at the mortality in a similar group of depicted patients merchany in a some, group or orpored process, that there are no true critical treated meananty that there are no tree cutting which patients will step beening he recume when parents was sup consumerably under medical therapy and that the cod needs will be best of the patients who fall to hold their own after transferror are operated upon city by a definitely planned surface rooms

Although the surpost technique of the various Attraction the surpers removative as the values and in the treatment of gastrodisciplination is standardized current for installment modifications, the 1913 literature contain amountees appr antian busines. To

the description of a method of dealing with the proximal jejunal loop in the posterior Pólya anastomosis after partial gastrectomy (63), Lahey cited among the difficulties encountered in this operation (1) angulation of the intestinal loops. (2) difficulties in suturing the anastomotic stoma wall below the transverse mesocolon, (3) tension on the anastomosis when a short proximal jejunal loop is used, and (a) the danger of an obstruction if the pastrojejunal anastomosis recedes above the opening in the mesocolon with the formation of a double-barrelled loop of proximal and distal jejunum penetrating through the transverse meso-Many of these complications may of colon course be avoided by an anterior Pólya anastomosis, but this procedure also has disadvantages When, in the latter, the jejunal mesentery is so short that, on being brought up to a reasonable level over the transverse colon to reach the cut end of the stomach, it produces pressure upon the transverse colon, any colonic distention is associated with danger of obstruction Moreover, in order to obtain a jejunal loop which will reach over the transverse colon, a long loop must be used and the gastric contents are emptied into a relatively low segment of retunum, which is not destrable

By simply incising the ligament of Treitz from its lowest insertion in the jejunum to its origin in the mesenteric root, it is possible to mobilize the proximal jejunum so that it may be anastomosed to the stomach through a slit made in the transverse mesocolon. Thus the entire proximal loop of jejunum is brought above the mesocolon and excluded from the greater general peritoneal cavity. When this procedure is followed, only one loop of bowel ultimately traverses the transverse mesocolon. It is not necessary to suture the stomach above the gastrojejunal anastomosis to the transverse mesocolon, and tension and angulation of either of the jejunal loops is readily avoided.

The solution of many of the problems of gastric resection by such a simple procedure as incision of the ligament of Treitz is at first difficult to visualize, but after the first trial the ease and practicality of this method become obvious

Back of England (6) has suggested a new technique for gastrojejunostomy. Several years ago he decided that easier access to the posterior wall of the stomach would be provided by exposure through an incision in the great omentum. He first makes an incision in the gastrocolic omentum parallel with the greater curvature which gives free access to the lesser sac and through which the whole posterior wall of the stomach can be thor-

oughly examined The transverse colon is then held up by the assistant and the second opening is made into the lesser sac through the transverse mesocolon. A coil from the upper part of the jejunum is brought up through the opening in the transverse mesocolon and the most proximal part that can be apposed to the stomach without strain or tension is clamped. The transverse colon is then returned to the abdominal cavity and the anastomosis made in the usual way except that it is done in the lesser peritoneal cavity. Finally, the edges of the opening in the transverse mesocolon are fixed to the jejunum by a few interrupted sutures and the opening in the gastrocolic omentum is sewed up.

Back believes that this method has many advantages over the usual technique, in that the entire posterior wall of the stomach can be examined, traction on the stomach is avoided, and the transverse colon is returned to the abdominal cavity to prevent chilling. Since his adoption of the method both his immediate and his late results have been better.

Konjetzny (62) reports further studies on antro-These are important because many duodenitis Continental surgeons contend that radical resection is the only procedure capable of removing all of the lessons present in the ulcerated stomach. It is an unsettled question whether digestion or erosion occurs in a healthy gastric mucosa or only after an inflammatory process. Many patients who have no true ulcer give the classical ulcer history because of antroduodenitis. When such patients are subjected to operative exploration, the surgeon must decide what surgical therapy, if any, is indicated Konjetzny believes that when the symptoms persist gastric resection is eventually indicated This is true particularly when the gastric mucosa shows a polypoid hyperplasia and when chronic gastritis has progressed to the point of organic pyloric stenosis Resection is indicated also when the differentiation between a benign pyloric hypertrophy resulting from gastritis and a fibrous carcinoma is difficult.

The studies by Aschner and Grossman (4) of 124 specimens of antrum and duodenum obtained by gastrectomy in New York suggest that at least in the Eastern United States the pathological changes of gastroduodenal ulcerative disease simulate closely those associated with gastroduodenal disease in Continental Europe Ulcers were never found in normal gastric or duodenal mucosa, their development being always preceded by a gastritis or a duodenitis Despite spontaneous healing of an ulcer, the underlying gastritis and duodenitis may persist and predispose to new ulcera-

tion. Aschner and Grossman observed also cases INTERNATIONAL ABSTRACT OF SURGERY ton. Ascencer and Grossman occurred also cases of gastrills and deceleratin with crossess in which

of fastitus and dissociates with crossing as within 1 say committees was peculiar and exploration to the control of the contro Y my camination as a negative and employs item revealed so fittle pathological change that the surgeon found no latitudies for operation by surron found no indication for operation Pa tents with such conditions have classical symp-toms of tiker and as a trile develop a typical after

ter Antroduodenitis of this type may be responsible Anticourcemin or one type may be respectations for failure after gastro-enterestomy. Publ. (8) by reports 24 cases to which reserving was been two toxy rating states entertoxically ratio (52) off industrial cases in which reserving was per torner successfulntity in an or town more was a was most seattle in the autism put was become also in the doodenum.

Henning (23) discusses chronic information thening (C) organic entropy in a similar (arrive). changes in the guaric muchan ma summer backet. He limits surgery to cases of steriosis, suspected He timus surgery to cases as surrous, suspensed carefularina, postoperative hermorrhage, and fairthe of medical treatment.

re or meanest treatment.

Zukachwerdt and Zettel (104) do not question the expression of transities in a prike number of bethe extraction or greation in a table number of pa-tions for whom greatic reaction was indicated, tents for worst feature reservoir was consumed that there are many persons with feature reservoir. not many that there are many present with title who have no subjective symptoms disposes of gattills is made reconficuoted to and partoscoreally Zonechaert and Zettel and pastronomently Calacinardi and cetter in the installed in the installed in the installed in the installed in the stourcy but after searched peculiar in sach, does not be a search and the controller in one controller stometo set site tenerosa occasos acesto sos of the 60 cases reviewed by them they found a definite painties at the edge of the needed spec-mans. Recorded estimation disclosed hypermens keenigen cramination discount hyper trophy of the featife mucross with accuration of the mucross field; the strophic factorised mucross, and the bolybody patchers unicom lacet, and microst too student unicom microst too. and the polytood hyperplastic micros. Technic serves of the as particular comment prosperatively about a fact of the fact of the comment prosperatively as of the fact of the about the bandar origin of postoperative comabout the importance of teletilith the ba pearus and the importance or reterring the pa-tients to a psychiatrat, but the fact that 18 of the 37 Symptom-free Patients will showed residual hathological changes rakes the question whether pathological changes more the Question woman is moved not be write to refer the patients to a it would not be write to refer the patients to a payernalist in the first place and postpone or

RESURE OF MEDICAL TREBAPY OF GASTRO-DODDER IT OFCERTIANS DESCRETE IN 1833 On the medical aids an almost equally large number of methods of therapy are proposed Kodin (61) datals on the similarity between preic alor and the early leasons of thrombo-safeting the agent and the early masses or aromato-sequence obliterary. He says, Despite the variation in histological details, the first petros in perpenaker and thrombo-anglita obliterans ampatate one

another rather closely." As people when repreanother rather closes; As peptic user reper sents a disturbance in the blood supply in the insents a casimpeace in the brood supply in the in-mediate neighborhood of the ulcer and the pains mentatio negrocomon or one tuest and the paint occurring in thrombosolitivo opgicas un sie stafficità similar il rainno ca bedine acca suo not bana occanimis ai rainno ca bedine acca suo not bana occanimis ai rainno anguin occieran are amangiy amusi, il appears that the treatment of peptic their about he based that the treatment of peptic user about be based on the same principles as the treatment of end arteries and voine

rierics and voice.

In the treatment recommended by Koho a solo-In the treatment recommended by Aona a sound of chemically pure sodium citrates sodium citrate tion of chemically bute somm cursus somm chierkie and a buffer agent disposed in distilled chorses and a nature agent measured in manuscription of the product of a physiogen-log concentration water is product to a symmetry son concentration in highly aliasting and injected intrave which is alignity alkaline and injected intravers mouth. The initial does is usually from 15 to 50 cm. Later the does may be increased to 100 c cm. Later we now may be increased to its cm. The solution is injected daily every other con twice a certify. By this treatment as of 50 cay or ower accesty my time treatment so or so

patients were apparently three, 12 were resented an appreciable de Terrand a acre our men only suggests by Autonomouses energy is again as yeares in the form (56) who used a green producing, Gram Hatterd (5) who used a green processing. Gram-positive diposterplococcus obtained from re-sected storacts. (V & patients trained with a stock their parents to a constitution to duct and one stort user vaccios or autoros to met and over medication, all evident fort of infertion desppeared in 71 and the ulcer returned in only

18 per cont) Of the 45 patients in whom the lock arise box combletely energicated the apara-las becomes or one 42 barrants to amount one secured surply trom one to three heats in \$ (12.8) for mer not combacted, assurement in \$ (12.8) per cent) Of 34 patients treated districtly without procedures and a servicent four of patients and and a 34 becomes restaurant for our patients and a servicent four of patient princent macaus toms, as events tom as uncertain and to date the alters have recurred in only 8 (44 + per cent) of these 8. Of the remaining 6 recurrences have developed in de remaining o recurrence dare derecoped in J (81 per cent). This confirms the teaching of J (of per cent) that for of infection in doubtedly play an important part in the forms donotedly pary an amportant fact on the comme then or overs counts sufficient motion and makes possible focus of infection in adultion to performing the local operation on the gustro-microland tract the local operation on the gauto-minesterns under During the last four years Trappe (9) pere 8 patients with older a 1 500 solution (9) pere 8

ms dose of 4 c cm 3 times a day / other medicatton and no restriction of the dat was per Cathod The Dam was released within an average of three days without any demonstrate tark ce ture mays summer any occasionation can effect from the metaphen. Bearing the control of the appetive symptoms, there was toenism or formation of the subjective improvement with complete exdespectators of the gastric and duodenal resonance Tripper attributes the results to control of infection in the gastro-intestinal tract by the metaphen in the garden measures tract by the increased the makes no organical of kitney irritation by the metaphen, here as a mercural product

In the Alvarez Lecture given before the American Gastro-Enterological Society, Hurst (57) emphasized the unity of gastric disorders. A study of the anatomy and physiology of stomachs of healthy young adults of both sexes showed that under perfectly normal conditions there is a considerable variation from the average. In 80 per cent of persons the variations occur within comparatively narrow limits and the anatomy and physiology of the stomach are so perfectly adjusted to the exigencies of ordinary life that these persons are likely to reach old age without ever suffering from any form of chronic gastric disorder Of the remaining 20 per cent of persons, one-half are born with a hypersthenic gastric constitution and the other half with a hyposthenic The hypersthenic group gastric constitution have a hyperchlorhydria often associated with a short, high, rapidly emptying stomach, and the hyposthenic group, a hypochlorhydria and a long, slowly emptying stomach Both constitutions are compatible with perfect health, but under unfavorable circumstances persons with a hypersthemic constitution are predisposed to gastric or duodenal ulceration and those with a hyposthenic constitution are predisposed to carcinoma of the stomach and Addison's anæmia

In hypersthenic persons with a constitutional hyperchlorhydria and rapid gastric emptying the stomach is empty for a much longer portion of the day or night than in the average individual Accordingly, there is much more opportunity for damage to the mucosa by such irritants as alcohol, tobacco, and drugs In addition, fractional Ewald meals in individuals of this type show not only hyperchlorhydria but also a decrease in mucus secretion Because of the reduction of the capacity of the stomach to secrete mucus, which is a characteristic of the hypersthenic constitution, the protection against damage which is afforded by the layer of mucus in the hyposthenic stomach is absent According to Hurst's theory, it seems reasonable to conclude that persons with deficient mucin secretion should be fed mucin in order to protect the gastroduodenal mucosa and restore as closely to normal as possible the relationship of the mucin content to the other components of gastric secretion

### MUCIN THERAPY

The mucin therapy for gastroduodenal ulcerative disease devised by Fogelson has been the subject of as much controversy as most other treatments for that condition, but is reported meritorious even by many of its critics. Block and Rosenberg (11) say 'I' is noteworthy, neverthe-

less, that partial or complete symptomatic relief was achieved with mucin in 7 patients who failed to respond to other forms of therapy. Such results indicate that gastric mucin may have a place in the treatment of peptic ulcer, notwithstanding the shortcomings previously discussed as untoward symptoms, although prolonged observation under carefully controlled conditions is essential to the formulation of any definite conclusion. At the present writing, then, we should advocate its use in cases refractory to other forms of treatment and as a step toward the evasion of a surgical procedure."

Rivers and Vanzant (85), who have used mucin in more than 150 cases of peptic ulcer, report that about 50 per cent of their patients responded favorably when mucin was employed. They caution against the use of mucin in cases of peptic ulcer associated with disease of the urinary or biliary tracts because of the increase in the blood urea in such cases.

Many physiological reports have been published in 1933 which support Hurst's hypothesis and strengthen the position of gastric mucin in the treatment of gastroduodenal ulcerative disease

From investigations of the action of mucus in the automatic regulation of the acidity of the gastric contents, Bolton and Goodhart conclude that the only means possessed by the normal stomach to reduce the acidity of its contents is the secretion of mucus

Florey (38), in reporting his observations on the functions of mucus and the early stages of bacterial invasion of the intestinal mucosa states that by microscopic inspection of living intestinal mucosa it was possible to see that mucous secretion has as one of its functions the cleansing of the villi from small adherent particles. This is accomplished by the movements of the villi and other intestinal motor activities which bring the particles into contact with sticky mucus secreted by the goblet cells and present as a lace like meshwork over the mucosal surface. The mucus with adherent particles is then rolled up into small masses by the intestinal movements and propelled onward by the peristaltic action of the bowel

Florey and Harding (39) found that by isolating duodenal loops between the points of entrance of the bihary and pancreatic ducts, the secretion of Brunner's glands could be obtained. This secretion is a clear, slightly opalescent "mucous" juice of the consistency of egg white. It is apparently homogenous and can be diluted with water. Its most remarkable feature is its large carbonate.

content. Hydrogen-one estimations made colormetrically showed a pH of from 8 o to 8 s. Branner's glands can be activated by pouring hydrochloric acid over them. Forey and Harding concionic, The significance of the silvatine screeks for the protection of gratife and duodenal mucosa is indicated and a possible relationship between a fallow of secretion and the production of peptic ulcer is suggested.

In France, numerous articles by Mooreans (ra) have led to extreme enhantam for the me of much not only in the trustment of lesions in the upper part of the abdomen but also in that of lesions chewiters in the gastro-intential tract. The French have become convitend by their or perfuential and chinkal towestigations that much as in important therappetic agent for gastro-is an important therappetic agent for gastro-

intestinal losions.

During 1931 about 12 tons of gastric much were used in the United States alone by over 100 citized and who reported their results to the Gastric Modine Committee of the Northwestern University Medical School. The only cases considered in the evaluation of gastric much for gastrodoxical otherwise were cases of so-called intractable? where which had faulted to respond harparatable?

intractable" where which had failed to regioned to be ordinary medical regimes and for which suggical therapy was being considered. Thirty-bare per cent of the patients had that previous surgical treatment and had developed a recurrence. The good callicitian with limited experience in much therapy found it possible to render 6; a per cent of these patients with interestable utices symptom-free Gt the rensating patients as 9,4 per cent were benefited by the dreatment and

y gen cent were not benefited. The viscosity and combined properties of much which are supposed to protect the ulcer from mechanical and chemical intritations suggested to Jones, Ivy, and Atkinson (48) the use of the vegicable mortiles form often in the irrations of other These investigations report that in a case in whother employed a highly profited wegetable much keep employed a highly profited wegetable much keep employed as highly profited wegetable much keep employed and the compared by them and called "darin" very additional control of the properties of the work to the case of typ attents with definite duodental or gasten claver say. Fourteen of these had municilate ruled of symptoms on taking prowdered darin in rigm dones every two hours."

In addition, many other types of modical ther apy have been suggested. Fourd and Sform (80) report encouraging results from injectioes of sodium bemoute. Files (73) like Pitkin, has obtained gratifying results from the intravenous administration of foreign protein, animal fats, and

enseth. Many French investigators and cliniciens, are reporting encouraging results from treatment based on theories regarding the role of certain amino acids in the pathogracus and treat ment of ulcer Weiss and Aron (100) for example state that following modified Exalto or as it is known in America, the Mann Williamson opera tion to produce experimental ulcers, there is incomplete digestion of proteins with the endresult that the amino acids necessary as building stones for body proteins are not available. When histidiae and tryptophan are injected the incidenot of experimental picer is radically reduced. On the bads of these experimental findings. Pozzi and Storm treated cases of olcer with intertions of a per cent tryptophan and a per cent his-tidin. This treatment was followed by cenation of the pain, hyperacidity and hemorrhage, a marked gain in weight, and restoration of the roentgen picture to normal.

The neurogenic ethology of peptic ulcer presented so ably by Cmining (a) in 1915 is again advanced by Comros (a)) who noted an association of pituliary timens and peptic ulcer. Course suggests the mo of pituliths subcutaneously in the

treatment of early cases of peptic alon Babkin (s) and his coworkers, in an article on the nervous control of gustric secretion and the effect of vitamin deficiency on its production, report that they have determined a gestric secretory response to stimulation of the parasympathetic and sympathetic nervous systems. They have increased our knowledge of the physiological functions of the matric mucous by demonstrating that a deficiency of vitamins radically reduces the response to atinsulation of these nervous systems When vitamins are again added to the thet the original response to norvous stimulation is practically restored. This may explain the formation of experimental ulcars on dicts deficient in vita mins.

#### n female

The Elements on pastroductoral ulcraths of sease during the last year has been concerned largely with an evision of end-results from the various surjical procedures. Judging from the reports published, the operation group the best and results in the Billich I resection. In cases of desclosual lesions in which this operation is officially of the best of the procedure, and those the which the period codesal instatucous the surgeon has the choice between a Billich III operation or one of its various modifications such as the Holmester Picturer resection. A wealth of material has

accumulated substantiating Finsterer's contention that a resection for exclusion is justified in cases of duodenal ulcer in which resection of the ulcer is difficult and dangerous Lahev's modification of the Polya operation should eliminate many of the undesirable postoperative mechanical complications Lahey's lack of enthusiasm for gastroenterostomy and other palliative surgical procedures may be considered indicative of a further American trend toward more extensive surgical therapy in gastroduodenal ulcerative disease

It is noteworthy, however, that many surgeons are beginning to realize that frequently surgical therapy will not by itself yield a complete cure, since after the most extensive surgical treatment individuals with the illeer diathesis still require medical management to achieve the best end-results

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# ABSTRACTS OF CURRENT LITERATURE

### SURGERY OF THE HEAD AND NECK

HEAD

Hi the A. Benign and Malignant Parotid Tumora and Their Amenability to Care (Cristite and bousting Parotherschwedia and has Heliumpmograthetics) of Tag & desirch Get f Cher Berlin, 014.

During the purely operative era the outlook for the cure of period tensors we very investible in case of braign tomor hot very underveals in cure of milignant tensor. About hild of the putents with malignant tumers came for treatment in a condition as such operation was no longer possible technically in most of the cases which were still operative a very including insully reserving of the facilial nerve, including insully reserving of the external curvide strength and including sometimes reserving of the strength and including sometimes reserving of the wilding meatins was becomeny. While the principle mortality of the curlipsians was incompany in the strength and the second for the strength and was the part of the principle second favorable as regards life of health

At the Simpleal Chale of the University of Berkin, Irridation has been used in a constantly increasing name of cases during the last recent years Hillage distincts the results, the conclusions desired therefore, and the ferure subdistances of the manufaction for frost manufaction process are makes tools for first famour The beingst opiones are marked tendency to recent and sort rarely are the horizontal process.

q. 1 1913 55 pitchests with maligna's Lyaroids temors, and with beings partoid tamors, and with beings astroid tamors and with beings astroid tamors and with beings astroid tamors and the Moentger Radium Institute. The wrange or of the patterns was a state of the patterns and the Moentger Radium Institute. The wrange from twelve to great the ages of the males ranging from twelve to seventy-exp. The return of males to females: the malignant purpoid (tumors was about 1. Cardinoustia were question to the females of the malignant of the patterns of the females. The ratio of males to females with beings removes was about 1.

In the stanffaction of the cases the miligrams intend timers must be placed in a group separate from the cureasonate and ascounts for practical clonked reasons as they are usually preceded by being mused tumors. In addition to the miligram mired timors, there is a small special group of a pecuhar nature, the miligrant cylindromata which are usually preceded by being cylindromata. The

important fact that, sooner or later even after as long as twenty years, benign parotid temors can change into mallgrant tumors, necessitates care and precention also to cases of benign tumors. The first signs of such a change are sudden increase in sire, softening, loss of distinctness of the border and loss of mobility of the tumor pain, and facial paralysis. These signs must be observed at their very beginning When locking of the faw metastages in the seighborng lymph nodes, extensive deep proliferation. and electration has occurred cure can no longer be expected from any procedure. In almost one-third of the cases of muligrant parothi tensor reviewed the accolasm had been present for a long time, fact andicating that it had previously been healen. With every second or third case of bealen mixed tumor w must recton with the danger of the development, sooner or later of a manguant change or mall grant recurrence and it is ou duty to take this into con-aderation in determining the indications for treat ment. In the bigrature up t. the present time there are few reports based strop a considerable number of cases from sausie source which were followed up for large number of years Reports of the resolts obtained for years after treatment in cases of malignant paroted are lew

I 91 Krason reported on 17 cases of carmonest of the puroud pland among kith there was
a case of eight year anvivral and a case of newest
arrival after the operation. However to both of
the lister an inoperable recurrence developed. Or,
put least transition of the particular cardinous whose tases
even from 17th put least that the protect
free prain. This put least was tracted by recention and what free from symptoms after seven years, but
for all free from symptoms after seven years, but
for all free from the participation of the participation o

he reminded five from symptoms her few years 1. July, Drunt, Cryssel, and Bernd reported that in a case of malignant must be more around 9 september of the case of carcinoma of the proted fland they obtained survival of six years by incase of rednam theraps alone and three-to six year survival in 9 of years treated by estimption and redum francistion in 933 Schlim reported that of patients operated upon the J ma Surporal Choice for architecture of the J market of the protection of the protecti

seven jears.

In the entire literature there are reports of only 6 cases of malignant tumor of the perotid gland in which the nations remained free from symptoms for

five years or longer Therefore the results in the cases treated by Hintze may be regarded as very good Among 50 microscopically confirmed cases of primary malignant tumor of the parotid gland the five-year limit was extended by exclusively operative treatment in 2 cases of carcinoma, 2 cases of sarcoma, 2 cases of tumor representing a transition from carcinoma to sarcoma, and r case of malignant mixed tumor In r case of carcinoma and 1 case of transitional tumor, prophylactic irradiation was given after operation In 2 cases of carcinoma, r case of sarcoma, and r case of malignant cylindroma irradiation was given for recurrence after operation Altogether, 13 (about 42 per cent) of 3r patients were still alive after five or more years Of these, 8 (about 26 per cent) remained free from symptoms Of 6 patients with an inoperable condition who were treated primarily or exclusively by irradiation, 2 were hving after five years and 1 of these was free - from symptoms The total results of this eclectic therapeutic measure in cases of microscopically proved malignant parotid tumor show that 40 per cent of the patients survived for five years and 25 per cent remained free from symptoms for five years If I unexplained death occurring two months after operation is excluded, the findings in cases of benign tumor (benign cylindroma and mixed tumor) show that 100 per cent of the patients survived and were free from symptoms for five years A few of these patients were operated upon more than once, and about half of them were treated by irradiation sooner or later, some of them for recurrence In the case of a woman with a bilateral mixed tumor, the tumor on the right side was removed by operation with resulting facial paralysis, and the tumor on the left side by irradiation without injury to the facial nerve

On the basis of these observations the following conclusions are drawn

The malignant tumor of the parotid gland and the tumor of the parotid gland which is suspected to be malignant should first be thoroughly irradiated. In this way a malignant lymphoma may be recognized as such and, at the same time, cured If the malignant parotid tumor recedes to at least half its original size within six weeks after the irradiation, the irradiations should be continued. When a small residual tumor remains after repeated roentgen irradiation, radium therapy may be used in addition. If the malignant tumor recedes to only a slight extent after the first irradiation, total extirpation should be done without further pre-operative irradiation and, because of the great frequency of recurrence, the operation should be followed by r immediate and several later prophylactic irradiations. A recent recurrence is destroyed most completely and permanently by irradiation Irradiation should be given first also in cases of older recurrences even when, because of its histological character, the primary tumor is known to have been only slightly sensitive to irradiation For recurrences with only slight sensitivity to irradiation, surgery should be employed so far as possible In cases of inoperable malignant parotid tumors intensive roentgen irradiation should always be given first and should be followed by partial extirpation and subsequent implantation of radium when these procedures are possible and seem promising. In the advanced stage, facial paralysis produced by the operation is of no importance as the malignant tumor itself leads to facial paralysis. A radical procedure is most effective in relieving the often almost intolerable pain. The development of distant metastases can be arrested only by irradiation.

The benign parotid tumor, while still young, is best treated by irradiation When a benign tumor comes for treatment after it has been present for several years, as is usually the case, its size, location, and mobility must be taken into consideration in judging whether it can be removed surgically without injury to the facial nerve. The surgeon must determine also whether injury to the facial nerve may be caused by the deformity produced by the tumor Steady growth, even though slow, seems to render it advisable to operate early with the risk of causing partial injury to the facial nerve in order that the greater injury which would be done by a later operation may be avoided. In every case in which an operation is performed for a benigh tumor of the parotid gland postoperative irradiation should be given for the prevention of recurrence which is very frequent and has a tendency to become (HINTZE) LOUIS NEUWELT, M D malignant

### EYE

O'Day, K. Operations for the Relief of Trichiasis and Cicatricial Entropion Australian & New Zealand J Surg, 1934, 4 23

This article is based on the results of nearly 800 operations for trichiasis and entropion which were performed at the British Ophthalmic Hospital in Jerusalem The pathological anatomy consists of one or more of the following conditions (r) trichiasis, (2) cicatricial entropion, (3) blepharospasm, (4) rounding of the posterior lip of the free palpebral margin, and (5) narrowing of the palpebral fissure

Operations for correcting the deformity of the lids may be divided into 2 main groups (r) those in which the lashes are pushed away from the globe, and (2) those in which the attempt is made to rotate the whole lash-bearing area outward. To the first group belong the Van Millingen, Jaesche-Arlt, and Spencer-Watson methods, and to the second group the Snellen, Hotz Anagostaki, Panas, and Burrough methods. Experience in Jerusalem has shown that most cases can be dealt with successfully by the Van Millingen operation, but for severe grades of entropion Snellen's operation is required and for trichiasis confined to the ends of the lids the Spencer Watson operation is best

The following instruments are necessary a small scalpel, a pair of curved and a pair of straight scissors, a pair of conjunctival fixation forceps, a pair

INTERNATIONAL ABSTRACT OF SURGERY

of small toothics (orces, a hid spaints, book, a needle bolder No. advancement needles, and a spaints, and a state of the state of the

General amenthems is indicated only in the cures General angushems is inducted only in the cases of young children Local analysis to obtained in considerable to the Local analysis to obtained by the of sorrow to the cases of sorrow to the cases of sorrow to the case of sorrow to the case of the

act the minutes before the operation 1 or tear of more large the vitality of the minutes amendment administration and more large to the minutes amendment of the contract and th

By these methods it was not difficult to obtain a By these methods it was not directly to column a good formedists result. The majority of the patients left Jerusalium, fee days after the operation and majority of the patients are supported to the patients of the support of the su act personnel ites mays after the operation and infined further tirestment. With drance of the control process recurrence was common or the it was possible to give adequate for tractment of

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years one was not poem a squareral evolutioning for three years. The termor which was the same of for three years amoved either difficulty by the According operation. The result as executed by So | as the authors have been the to determine only the heatherman days once and to octivation ported to date. Four wave described respectively as

ported to date. Four were described respectively as glaves, or the subscripts serve perspectively as glaves, and the subscripts of the orbit. Perspectively factors of the orbit of the subscripts and the subscripts of the subscri trations of the fundus

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The case reported this article by Smolernel and A painted was one of metastatus of gastro crophing. Agained was one or measuress or gastro emphasis and cancer into the return proper nor involving the other portion of the

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Microscopic examination about of that the central Alternative can miss can accord to the retise and extenner one may tenner tree tree tenner and or femiliar to the familiar viting, destroying the plants. tenses to the annual vittes, unstroying the page mented epithelium but had I no place invaded the chored. Scattered throughout the substitut the chartest constitute introduced the annual constitution of the same trade to the same cells and small crudes there were engle tomor cells and small charge. Some lying fee and others borderist on Brack, from it would be to the time via found to the nerve Dee tays or where one proups of the time of the time of the time via originable and to shall a shall of more more one a

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Ruble L. R. Forcad Drainage for the Treatment

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the mine nature that, from the trit came on the party, no conclusions may be drawn into regard to raws, no concursoes may be draws. Its regard to the influence that forced drainings may have on the mortality of memorita according to may make the conmortanty or members accountry t ser and around an elections. While individual cases have shount an paramly remarkable response to the procedure, it Peaconsy remarkable response to the procedure, it is obvious that the results will vary with the virulence

of the infection, the extent of the bone involvement, the nature of the organisms, the presence or absence of blood stream infection, the general intoxication, and the response of all of the organ systems The specific treatment of the meningitis is only one part of the treatment No form of treatment directed against the meningitis alone can save life in all cases

# NOSE AND SINUSES

Plasmocytoma and Rhabdomyoma of the Paranasal Sinuses Pathological and Surgical Considerations, Report of Cases Cooper, K G

The author is of the opinion that solitary plasmocytomata and multiple myelomata should be classified with the malignant lymphomata. He reports two cases of solitary plasmocytoma and one case of rhabdomyoma of the paranasal sinuses thirty-two plasmocytomata reported in the literature to date, the majority were found in the upper

Operation with postoperative irradiation seems to respiratory tract. give the best results

Perussia, F Radiotherapy of Cancer of the Mouth HTUOM (La radioterapia del cancro della bocca)

Perussia presents statistical tables which show that in cases of cancer limited to the margin and dorsum of the anterior part of the tongue, the gums, and the lower maxillary bone the results of radiotherapy and those of surgery are about the same, and in the cases treated by irradiation the mortality is lower as there is no operative mortality In cancer of the lips, the palate, and the floor of the mouth the results of radiotherapy are considerably better than those of surgery For operable cancers of the cheeks, the base of the tongue, and the tonsils, radiotherapy is distinctly superior to surgery, whereas for operable metastases in the glands of the neck surgery is

The limits of cure have been definitely increased decidedly superior to radiotherap) by radiotherapy Pfahler says that from 50 to 75 per cent of cases of cancer of the mouth could be cured if thorough radiotherapy could be given in the beginning of the disease, but that education of both the public and physicians is necessary for early diagnosis In cases without glandular metastases the incidence of cure persisting after five years is 40 per cent, whereas in cases with glandular metas tases it is only 10 per cent There are, of course, cases which cannot be treated even with radiotherapy Among these are cases with severe sepsis, cases with phlegmons such as are seen in advanced carcinoma of the cheek and the floor of the mouth,

and cases with far advanced cachexia Biopsy is important as the radiosensitiveness of the different types of cancer of the mouth varies

greatly Surgery is to be preferred for small cylindromata of the palate, carcinomata with very highly differentiated cells and slow development which are made up chiefly of corneal pearls, and adenocarcinomata Radiotherapy is to be preferred for lympho-epitheliomata, carcinomata with less highly differentiated cells and numerous and atypical mitoses, and the lymphosarcomata and the sarcomata made up of small round cells, which are frequently seen in the tonsils The technique of radiotherapy indicated depends on the radiosensitiveness of the

As the majority of cancers of the mouth are tumor in the particular case prickle-celled epitheliomata which are very resistant to radiotherapy, they should be given divided doses of strongly filtered rays of short wave length The doses should be as large as possible without causing injury to the normal tissues While it is impossible to administer a uniform carcinoma dose, the dose of from 3,500 to 4,500 r recommended by Coutard may usually be given for mucous membrane and skin epitheliomata. In cases of very sensitive tumors, such as sarcoma of the tonsil, it is not necessary to use Coutard's technique as good results can be obtained with ordinary deep roentgen therapy Treatment with a single massive dose of roentgen rays is now rarely used in cancer of the mouth except for very small carcinoma of the lip The dose of radium is about 1 or 2 mcd given by intratumoral fixation of needles In many cases the combination of external roentgen therapy and intratumoral radium therapy has proved very effective In some cases radionecrosis is unavoidable. Of 375 cases treated with radium in the period from 1928 to 1933, it occurred in 23 The fact that it is most frequent after the intratumoral use of radium and in patients whose mouths are in poor condition suggests that it may be caused by infection Its incidence is reduced by a careful technique and hygienic care of the mouth

# PHARYNX

Modern Surgery in Diphtheria Observations on 6,011 Cases Arch Ololary ngol, Balley, C W

The most proximal sites of respiratory obstruction encountered in diphtheria are the orophary nx and hypopharynx Cervical cedema appears rapidly and often causes complete obstruction of the lower part of the pharynx The only means of real relief in such cases is an orderly tracheotomy

The next type of obstruction is that of the larynx, trachea, and bronchi Routine inspection of the larynx by direct laryngoscopy should be done in every case of croupy cough or labored respiration All pseudomembrane should be removed by aspiration through the laryngoscope If necessary, a long aspirating tube should be passed through the lar, ngoscope to remove pseudomembrane from the tra-chea and bronchi This is preferable to the use of the bronchoscope During the first twenty-four to that's is boun the membrane may require reasonal serveral theme as it define reforms in from six to twelve boars. Although the use of the O'Dayen undestrible. If intuitation is accessive it should be performed by the indirect method and should sever performed by the indirect method and should sever performed by the indirect method and should sever performed. The tube is mustly left in place for five days and then removed and the out if nousely

The third type of respiratory obstruction is dept theritic brunchopseumonia. This is usually associated with trachesborochial diphtheris and is she way istal as no effective therapy is known. It is usually due to obstruction of the translat brunchioles from Boutfaction of the trachesborochial gramptone.

The relief of chronic tube cases" has been a serious problem since the investoe of the O'Dwyer tubes. The essential leades is a cleatrical etenois of all or part of the larges. The neshods of treatment are available. In the first method is larger calibration of the larger tubes are available. In the first method is larger calibration which is the constant of the larger tubes are available to the case of the larger tubes of the larger calibration of the lar

Tracleotury is now accessing comparatively established it is instituted only in phayingued obstruction caused by accessive cervical cricies and in few richoric trob cases. In acute laryunged dipothers it is rarely performed, but is made safer procedure than introduced without performancy laryungerous and asymptom. It is nafer also than lewring the insulative patients appropried at homos or far out insulatively patient appropried at homos or far out.

in the country

If diphthens booth persist in the throat after recovery from diphthens the tonsils and admoids

should be removed

A presentity positive nead discharge about he treated by an ejectime gray and nead irrigation with normal sait solution. If the secretion is still positive after time days of this frequency should nearly be found in the accessory shouses and should be drawed surpcuily. A presidentity positive discharge from the same about to be treated in tensal meaners that surpcial intervention is meally indicated of improvement does not result in free there to are weeks. A strate 3 N Toronov 3 M.D.

#### RECK

Mass, U. Boyce, F. F. and McFetridge, E. M. Hyperthyroldism in the Negre, with set Analysis of Seventy Three Coses. Heat J. Surg. Obs. 5-Cymer. 1934, 4–455.

Surgically the Negro represents a definite problem. The maintin is very poor surgical rick, while the black Negro is a very sais surgical risk. The scribern Negro has poor beginnic surroundings, and as he is provas t disregard early symptoms, he sais ally presents an advanced pathological condution by the time he entern the honertal.

Goiter in general and toole goiter in particular is relatively rure in the South in the New Orleans Charly Hospital, where the admissions swrange apono annually, the authors were able to collect early as sengical cases of goiter. One honored and forty-eight of the cases of suspical potter were those of Newsone and as of the histoness stories.

of Negroes and 73 of the latter were toxic.

In the Negro, hyperthyroldism is usually secondary to a simple thifuse or colloid gotter. The toxic manifestations are less severe, the basel rate is

lower and the postoperative reactions are less serious than in white persons

not be total in wine person.

In the total series of 34 surpeal cases of goler cited by the suthers the mortality was 30 for ceast, in the cases of white persons if was 50 per cent, and is the cases of negroes it was 10 per cent. The total cases of the series was 10 per cent, as the case of the control of the case of the cent and in the case of the mortality of white mustes, per cent. The mortality is the total number of cases of time thyroid disease was 1 7 per cent in the cases of white persons, 9 per cent and in the cases of white persons, 9 per cent and in the cases of white persons, 9 per cent and in the cases of white persons, 9 per cent and in the cases of Negrors 18 per cent.

If the course hypothyroidina is less serves in Negroes than in what persons, in snortally higher in the Negro. This is explained by the Negro in explained by the Negro affects the Negro in setting treatment, cardiovascular complications on a hypothesis or eyiphatic lase, the greater frequency of taxle gellor in the smaller who is a poor surgical reak, and the greater technical of the cardiotic open ton does not the advanced using of the cardiotic open ton does to the advanced using of the cardiotic open ton does to the advanced using or the cardiotic open.

The a there state that the modeless of texts gater in the Nego is rising. In 1930 the sumber cases admitted to hospitals was a times greater than the number admitted during the period from 1927

The treatment indicated for Negrous is the same as that indicated for white persons, but the Negro good be educated to seek treatment earlier

Cettell, R. B. Eye Complications in Exophthelistic Golden Ass. Surg. 1934, 100 544

Press & Montan M.D.

There is greated types of ocular complications in expolitation patter. Those of the less resumes type are catarret and lentocular opacities due to participated openitioned and lentocular opacities due to participated openitioned and the conclusion from the reduction. Those of the sover forepret type are related to expolitations and its complications. The report is based on a participation from the complication of the compl

veloped. Of the 6 cases in which the tetany was

chronic, there were no eye complications in 2, lens opacities developed in 2, and frank cataracts were opacities developed in 2, and mank catalacts were formed in 2. In 1 of the cases of lens opacities the tetany was fatal, and in the other both eyes were ultimately lost from progressive exophthalmos the 2 cases of frank cataract the first visual signs developed after twelve and eighteen months respecdeveloped after tweever and eighteen months respectively and the cataracts matured in two and a half

Exophthalmos is one of the cardinal signs of exophthalmic goiter although it occurs also in many other conditions. The cause of exophthalmos in and three years respectively The facial appearance, simulating fright, suggests a sympaexophthalmic goiter is still unsettled thetic influence, and the rapidity with which the exophthalmos frequently disappears suggests a

nervous rather than an anatomical origin To determine the incidence of exophthalmos in exophthalmic gotter the author reviewed the records of 800 consecutive cases of the latter condition or soo consecutive cases of the latter condition of Exophthalmos was present in 364 (46 per cent) of these cases and absent in 421 (52 per cent) In the records of 15 (2 per cent) of the cases the presence or absence of exophthalmos was not stated Of the 364 absence of exopartinarmos was not stated. Of the 304 patients with exopathalmos, 9 had a unilateral and relation between the seventy of the disease and the 13 an asymmetrical exophthalmos degree of the exophthalmos, but a definite relation was apparent between the duration and degree of

Of the 800 patients, 720 (90 per cent) were Ten times as many females as males had exphthalmos The age incidence of exophthalmos the proptosis followed the general age incidence of exophthalmic The ages ranged from two years and eleven

Of the 364 cases with exophthalmos, the exophthalmos was completely relieved in 183 (50 3 per months to seventy-six years cent), improved in 48 (13 2 per cent), and not improved in 78 (17 nor cent) proved in 79 (217 per cent) In 4 (11 per cent) it increased In 50 (13.7 per cent) the outcome as regards the archibal and a second state of the archibal and a second state gards the exophthalmos was not determined

Of the 183 cases in which the exophthalmos disappeared, the cure was complete within a year in

165
In 26 cases, exophthalmos developed after the toxicity persisted or operation In 10 of these the toxicity persisted or operation in 10 of these the toxicity personed of recurred, in 12, the basal metabolic rate was normal, and metabolic rate was normal, and in 4, myxcedema supervened

and in 5, myxcedema supervened

The myxcedema was relieved by the administration of thyroid ex-

Of the 4 patients whose exophthalmos increased after operation, 2 were relieved of the hyperthy-

A number of procedures have been advocated for roidism and 2 remained toxic. the treatment of extreme exophthalmos Cervical sympathectomy and plastic operations performed sympathectomy and plastic operations performed on the external canthus have been of little benefit Naffziger has developed an intracramal operation in which the roof of the orbit and the inner margin of the foramen opticum are removed

Roussy, G, Huguenin, R, and Welti, H The Histological Structure of the Thyroid Remainristological Structure of the Ingroto Keman-ing After Cure of Basedow's Disease by Subtille filter our paseury & pisease by Guo-total Thyroidectomy (Structure histologique de la thyroide restante après guérison de la maladie de Recedon par thyroidectomie autocale. Basedow par thyroidectomie subtotale)

In two cases of well-developed exophthalmic goiter cured by subtotal thy roidectomy the authors were able to make a histological examination of tissue from the portion of the thyroid gland remaining In one case this examination was made fourteen one case cons examination was made fourteen months, and in the other five years, after the months, and in the other mye years, after the thyroidectomy. In both cases the second operation was performed for the removal of an unsightly scar. The case histories are reported in detail patients had severe Graves' disease and both were apparently completely cured In both cases the apparency completely cured in both cases me portion of thy rold remaining presented the typical portion of chyrota remaining presented the typical microscopic appearance of the hyperplasia seen in Photomicrographs so called exophthalmic goiter

The authors conclude that the symptoms of made in the first case are shown exophthalmic goiter are due, not to a dysfunction, but to the hyperplasia but to the hyperplasia but to the hyperplasia but to the hyperplasia but the fact that the small and the clusion they cite the fact that the amelioration of the symptoms under lodine medication occurs concomitantly with a reduction of the hyperplasia

Zuppinger, A, and Rohrer, C. The Clinical Aspects and Treatment of Struma Maligna A report on 101 Cases Treated in the Period Report on 1023 (Zur Klinik and Therame der from 1018 to 1023 (Zur Klinik and Therame der from 1918 to 1933 (Zur Khnik und Therapie der Struma maligna Bericht ueber 101 Faelle von 1918

The authors review for cases of malignant struma which were referred to the Roentgen Institute of the University of Zurich for irradiation treatment in a period of fifteen years They state that in the eastern part of Switzerland thyroid sarcoma is almost as frequent as thyroid carcinoma and Langhans, struma together. The cases are decidedly unfavorable. Of the assessment when a second control of the assessment as a second control of th able Of the patients whose cases are reviewed, only 6 could be operated upon radically, and of the latter, only 3 have remained free from symptoms since the operation In only 48 of the 101 cases was it possible to complete the treatment. In the others only palliative treatment could be attempted A comparison of the different methods of treat-

ment used shows that operation with postoperative irradiation gave no better results than irradiation alone even though in the cases treated with irradiation alone the prognosis was less favorable than in the cases treated surgically Irradiation with fractional doses over an extended period yielded considerably better results than the method used in the beginning as it rendered complete treatment possible in a considerably greater number of cases In some cases in which the condition was far advanced it resulted in freedom from symptoms, but the length of time that has elapsed since the treatment is still too short to permit the assumption that a permanent cure has been obtained.

Van Poole, G. McD: Tuberculode of the Larynx.

Arch Older; gel. 934, 20 53.

Larymeral tohermicals is almost invariably a moclated a th were change polynomery tuberrolods It is the result of constant contemporation of the mucous membesnes by bacilliferous snotum. As rule the more sovere the pulmonery dhease, the more severe the laryneest disease. Manage thethegolabes the following stages of lary need involvement (1) infiltration, (1) ulceration, (2) perichondratis and (4) tumor formation. Of these, niceration is the most common and the most distressing. The ulcers anoese to occur most frequently on the vocal cords and especially on the vocal processes. The lesions usually spread to the ventricular bands. stytemolds, and the base of the emphatis. In a down and direction, they greed to the traches and large broughl

The sexity symptoms of larynged tuberculosis are those of interference with phospation. However, change of the prints of the voice scratching of the threat, and a parany sail unproductive cough are controm. Later symptoms are path on phosostone or edy tition, refer odaign, and the peculiar shikant whaper high as the unministrable sign of the distribution of the control of the control of the size severe typosons, and at hunger often occur. In the lars stages labored respection and applying mustly seprements as the restel of streons of the finer bronchloles with atelectasis of large areas (

This report is based on a study of pop cases of largeged tuberculosis in noise and yet cases in females which were observed during a period of five pars. The former consilicated as 1 per cent of a series of you cases, and the latter op a per cent of a series of you cases of politomary reberculoses. The total armsher (440 cases) constituted as 0 per cent to the construction of the politomary cases of politomary cases of politomary cases of politomary cases of the politomary cases of politomary cases of the politomary cases of politomary cases of the politomary cases of politomary cases of the politom

The first principle of treatment is the establishment of adequate therapy for the pulmonary lesion Of 198 cases treated by pneumothorax damag the percenting year t the author' lossifution, active laryugeal involvement was found in only 4. Before treatment by pacumothorax had been begus in these 3 cases, larymetal toberculosis was present in 33 The cardinal principle of local treatment is vocal rest. Among the various pathetry is employed for the relief of pain and dysphagia are cocaine hydrochlonde, ethyl amino benenate locamers, and ice chica. The injection of \$5 per cent alcohol into use or both supralaryngeal serves is practiced extended in refractory cases. In the majority of cases electrocauterusation is by far the most satisfactory local measure. By this method, vascularias-tion of the lesion and theophastic replacement are promoted In cases which are ununited for cautery naillation, every possible procedure that gires prous see of relief should be employed

ANTHON S W Townson M.D.

# SURGERY OF THE NERVOUS SYSTEM

# BRAIN AND ITS COVERINGS, CRANIAL NERVES

Russell, W. R. The After-Effects of Hend Injury Fdn b argh M. J., 1034, 41 120

This article reports the findings in 200 cases of head injury in which a follow up examination was made on an average of eighteen months after the acute stage. All of the observations were made by the author who had studied each case during the acute stage of the illness.

As the incidence of after effects was found to be highest in the older patients, Russell concludes that age is the most important single factor to be considered in estimating the prospects of recovery

The most common post concussion symptoms were (1) headache, (2) dizziness, (3) loss of memory or mental ability, (4) nervousness (5) disturbances of behavior or personality, and (6) sleeplessness

One of the most astonishing findings of the author's study was that 3 5 per cent of persons suffering from post concussion disturbances develop epilepsy

The relationship between the severity of the injury and the duration of incapacity was fairly well indicated by the duration of the complete loss of

consciousness

The patients who sought financial compensation were much slower to return to active work than the others

The author concludes that the presence or absence of a demonstrable fracture of the skull is of little importance in the estimation of the severity of the injury

The treatment employed for the post concussion syndromes is described R. GLEN SPURILING, M.D.

Puech, P., and Stuhl, L. Adenomata of the Ilspophysis Roentgenological Appearance of the Sella Turcica (Adinomes de l'hypophyse espects radiologiques schematiques de la selle turcique) Presse méd., Par., 1934, 42 1131

I'wo special examinations, namely, ocular and roentgenological, are essential for the early diagnosis

of tumors of the hypophysis

An adenoma of the hypophysis passes through two anatomical phases, one within and the other outside of the sella turcica. During the first phase the tumor may remain for a long time microscopic. There is no change in the sella and, when the adenoma is of the acidophile variety, the condition is manifested only by an acromegalic syndrome. With an increase in the size of the tumor, the sella becomes distended and the adenoma pushes upward to become suprasellar or downward to become infrasellar and invade the sphenoid fossa.

In spite of the variations in the shape of the normal sella, experience has shown that a certain roent-genological appearance of the sella is associated with each variety of adenoma. In cases of chronio phobe tumor the sella turcica is distended in all diameters and the clinoid processes are thinned. There are no bone hypertroplies such as are associated with acromegals. On the contrary, the walls of the sella are atrophic

In cases of acidophilic adenoma the appearance of the sella is quite different. To distention which occurs chiefly in the vertical diameter are added hypertrophy and clongation of the clinoid processes. Particularly the anterior process is prominent.

Tumors of the posterior cranial fossa may be confused with hypophyseal tumors because occasionally they cruise an aeromegalic syndrome. However, the syndrome develops late, several years after the symptoms of intracranial tumor. Moreover, the deformity consists of destruction of the quadrilateral plate (clivus) of the sphenoid. In doubtful cases ventriculography clears up the diagnosis. Particularly difficult to distinguish from hypophyseal tumors is retrochiasimatic araclinoiditis. In this condition the sella is normal.

The roentgenographic images are of some aid in foreseeing the operative difficulties that may be encountered in cases of acromegalic acidophile adenoma. These difficulties are caused by the hypertrophied chinoid processes.

The article contains twenty one illustrations
ALBERT I DE GROAT, M D

Adson, A. W. Operability of Brain Tumors. Ann. Surg., 1934, 100 241

Many physicians still hold the opinion that all cases of brain tumor are hopeless. While many brain tumors are inoperable because of a malignant structure or inaccessibility, a fair group can be removed subtotally or by the intracapsular method. The increased intracranial pressure produced by the increased intracranial pressure produced by the inoperable tumor is frequently relieved by suitable decompressions. The interval of relief is often increased by the aid of radiotherapy. Surgical treatment of brain tumors is not a hopeless and worthless procedure.

Until the last two or three decades, most general surgeons were more concerned with the technique of craniotomy than with the problems of the treatment of tumors. This fact was responsible for the development of the new surgeal specialty. known as "neurosurgery." The neurosurgeon is qualified to evaluate chinical, neurological, and laboratory indings and to execute the accepted modern surgical procedures in the treatment of tumors of the brain

In order t evaluate the operability of brain to more, Adam reviewed a series of sox consecutive cases of brain tumor operated on at the Mayon Chuich this elighteen months from April, ogs to September 1933. The t more was removed completely in 9 and miterially in og. The inter-facituded 35 cases of pituitary tumor and 19 of neuristress of the accountly nerve.

Many surposts here changed the anestheric employ of from time to time. Adone has alrays returned t the use of other as he has beened that drop ether inhatation can be employed with safety and likeoit causing a rise in the blood pressure if the other administered on a open mask held over a Magill tube which has been suirodoord through the nose or mouth into the trackes. The intraterm of the control of the c

The surgical field, which does not always include the cultie bond, is shared and thes cleamed with soap and water and sofutures of either and alcohol prelimitary to the application of a coats of a "your alcohole sol tion of merificiate. The a round is directive protected by saturding absect of sterilized rubber data about the proposed emptyal field. The

rubber dam is of sufficient size to extend from the head over the instrument table

In the closers of the wound the best results are obtained by careful approximation of the bone flap periostrom, mucke, facts, geles, and skin by in terrupted silk source. Bure openings are filled with boar doat which has been made into pledgeth by wrapping animal membrane bone ground bone obtained at the time of the opening. Drums are rarely med.

Most surgrous prefer to complete the operation in grage ad, if accessary resort to blood transfusion during the operation. In emergency solution of aneus may be substituted for blood

Surpocall turious of the bean are classified into large props, the one including excapabilists and creasable labitating transcri, said the other different molitating and inaccessable it boos. The encapsitated accessable is more to removed by surgers most caully but the infiltrating turnor when situated in a silent area, can also be removed by including the beam boat. It sellect rescribent of driften millions ing turnor are resided if removal of the timor may be able to the control of the silent properties of more normal function of more toward in section of or trief with preservation of more normal function than an extended, indefinite period or richer with the possibility of speakle beautypened or richer with the possibility of speakle beautypened or richer with the possibility of speakle beautypened.

#### SPINAL CORD AND ITS COVERINGS

Stern E. L. The Relief of Intractable Pala by the I traspinal I jection of Alcohol. Am J Surg

This article is based on fifty intraspinal subsrachsoid injections of q5 per cent alcohol for the relief of accreciating par of chronic nature. T esty in of the injections were given in nineters cases of car-

The specific gravity of 95 per cent alcohol is from 300 to 0 5 0 as compared with the specific gravity of cerebromotosi fluid which is 1 007. As alcohol will ficet pon cerebrospinal fluid its acread can be limited to the desired segment by having the patient Bex the states laterally. The level of the injection is determined from a mosideration of the secretic and sympathetic pathways favolved in the particular case. The patient must be placed in the correct position with the center of the area to be affected by the sicohol apperment in the horizontal level. Thus position may be trained by flexing the patient over pillons with the head always lower than the part of the unine to be injected. A fine lumbur poneture needle abould be used and free flow of clear cere bromanal field obtained Between 4 nd 16 minums of sterile os per cent alcohol with specific gravity below 8 6 are injected slowh ith a tuberculus syrings. The dose depends upon the location of the injection and the effect desired. From three t. four minutes should be taken to inject the skeohol without barbitage or the injection of air The patient should retain the more position for at least ten inlowtes after the injection and then be placed flat in bed for two bours ith the foot of the bed elevated from 4 to 8 in He should not sit up for four hours after the myection and should remain in bed twenty-four bours. The i lection may be repeated after in or one days if the pain continues or if it is necessary to inject the other side in cases of bilateral pain. The puncture should never be made above the first thoracle vertebra. The maximum amount of alcubol insected between the first and second thoracte vertelese abould not exceed 8 minima. It must be remembered that the pain may pendst for as long as two weeks after the injection

The wince believes that the intraspinal section of alcohol is practical and as! hen the door properly It usually releases intractable pain. It may cause only partial assesshesh and does not purally a musicle. ROBERT COLUMNA, M.D.

Ley A. The Surgical Treatment of Syringony sile.
(Le transcense quirirpes de la attagonada)
En ércong de Barcelone, que 4 6

The athor troots four case of myclopatible civilies with the pyragament yndrone which were operated upon by the Etherr Punersp method Tas first two were observed by bins. I Punersp ciline in Dorpat, Estbands and were triported in Durango. Sergical hemopathology published to 33. The last two were operated upon by Gardner of Christian C.

Ley has collected from the literature eighty-eight cause of latrassedullary cartheria. Icid the Enberg Pausepo operation was performed. If salyres them statistically draws general conclusions from the results, and discusses the treads of opinion as it the comparative efficiency of surpoil and Newsy

trestment

The results of operation vary markedly and are ometimes paradoxical This is explained by the differences in the causes and pathological characteristics of the cavities Further pathological knowl edge is needed for the differential diagnosis of the my elopathics characterized clinically by the syringo my clic's v ndrome Of the cases reviewed, 70 per cent chowed improvement, 13 per cent no improvement, and 17 per cent aggravation of the condition six months after the operation. In the cases of aggravamonths after the operation in the cases of aggravition there are three deaths. The corresponding percentages for the late results which were reported in only 17 cases, were 64 7, 11 8, and 23 5 per cent The unfavorable results increased with the passage of time. The previous duration of the disease had only a slight effect on the immediate results, but a marked effect on the late results. The symptoms most amenable to surgical treatment are the sensors and trophic disturbances, prin, and the signs of compression of large neric tracts Pareses of the penpheral type and muscular atrophy are soldom

Let believes that in cases of the stringomyelic syndrome in which the diagnosis is made with cer tainty, treatment should be guided by the hydro relieved dynamic conditions of the cerebrospinal fluid spinal block, even partial, is present liminectomy should be done and the lesion adequately treated If a carry is found, it should be drained. If there is no block, irradiation therip) should be tried and its effects carefully noted If there is the slightest aggravation of the symptoms if spinal block appears, or if the patient does not show improvement in a reasonable time, surgical treatment should be under taken In grave advanced, or rapidly progressive cases, especially those with marked trophic changes, surgical intervention should not be delayed unless irradiation produces marked improvement within a short period of time to single sign is of special true in the prognosis The Fleberg Puusepp opera tion has resulted beneficially in about two-thirds of cases of less than four verrs' duration. In about one fourth of such cases its results have been unfavorable In cases of more than four years' duration the number of cases in which the condition vas made worse by the operation rises to more than 50 per cent However, it must be remembered that in cases of such long duration irradiation therapy is com

The eighty eight cases treated surgically are sum marized in a table The article has illustrations and pletely ineffective an extensive bibliography

# PERIPHERAL NERVES

Bergstrand, H A Malignant Tumor of the Left Tibini Nerve 1m J Cancer, 1034, 21, 588

The author reports a case of malignant tumor of the left tibial nerve associated with multiple pul-monry tumors. The patient, a man thirty one vers of age, first noted pain over the distribution of the tibril nerve This was followed in six months by a palpable tumor in the left populteal fossa Lighteen months after the onset of the pain there was parests of the flexor muscles of the toes, and th enti two months after the onset symptoms of pul monary and cerebral lesions appeared and a ere fol

Autops) did not include examination of the head It revealed a susssorm enlargement of the lest tibial loved by derth nerse 5 or 6 cm below the brinching of the perones! nerve and multiple tumors in both lungs and pleural On gross examination the tumor of the nerve was cavities

found to be gravish white and fairly soft. The cut surface presented vellowish areas and a few small hamorrhage The nerve trunk could not be distinguished Microscopic examination showed that the tumor had forced the nerve trunks apart. The meelin sheaths had disappeared to a marked degree The tumor consisted largely of vessels and inter stices filled with fat lorded ranthomy like cells The vessel walls were composed of a thin layer of endothelium surrounded by loose nucleated connec tive tissue which in turn was surrounded by a thick laver of hyaline connective tissue. The residue con sisted of empty nerve fibers exhibiting a prolifera tion of the Schwann cells These proliferating sheaths of cells were characteristically split by mem branes of connective tissue Proliferations of the neurilemma strongly suggested those of a neuroma The hemangioma infiltrated the surrounding mus The growths in the lungs were composed of cells cles as well as the nerve trunk

with closely lying oval or slightly clongited nuclei arranged in rosettes The cell clusters were sepa rated by connective tissue carrying capillaries As the tumor in the popliteal space was the first

to cause symptoms, the author believes that this growths showed no characteristics indicating that they were derived from vascular tissue Bergstrand therefore suggests that the proliferation of the cells of the sheath of Schwann was the source of the pulmonary metastases

# SURGERY OF THE CHEST

## CHEST WALL AND BREAST

Tauri, D Acute Purulent Martitle During Lacts

et, D. Acute rurment america managa acute tion (La mesure paralente acute de allatra sociol).

The uthor reports twenty cases of acut purulent mastitus occurring during laciation. H describes the bacterological and pathological findings and the ter peutine agreement fifteen of the patients ere prumpare The principal bacteria found ere staphylococci and streptococci, but other organisms were also present For commerce reasons, the inciron for drainage was For commerce reasons, the incresson for circular was usually made t the edge of the bream. Cure resulted in all of the cases. The duration of the infection ranged from eleven to lifty nine days

A LOCIE ROSE, M D

Mouleaguer Dolfris, P The Distincts of Cancer of the Breast (Dagnostic du cancer d' sen)

In its early stages cancer of the breast may amplets a number of conditions, notable among

Necrosis of evets of the premammary fat This is usually the result of atolyses of the far from tradizar pot occasionally t occurs in prilo and pendulous breasts in the absence of traums. It is characterized by ecchymosis dating as rule from recent injury. The letton is superficial, fue trees researching in the Beccasery to

Chrome infectious mastitis As this is often bestell t the menobeness for treates question disprostic problem. If were, there is frequently history of antecedent acute infection which is of aid A disgosite incised should be made when there is doubt as f the nature of the condition

3 S philis and tuberculous

4 Isolated crats These are formed very madously ad are usually situated in the center of the breast Exploratory puncture is comparatively simple procedure of great diagnostic value

yearment concentration occurring to persons and t berculous ornen Sometimes an incision must be made for aspectand and microscopic section

6 Generalized dystrophy (Rectus' disease) which is often helstern! ad describered throughout the The localization of the cancer as when the lesson

ravolves the auditory prolongation or in t the periphery of the gland ad firmly fixed t the chest

san, may ano seas to circ. The ulcrainer types, particular! Paget disease of the mysle should be recognized early but are fre quently mustaken for chronic eczenia

Bleeding from the nipple may be due to benign papellomatous immors Therefore I does not necessarily indicate that a famor mass is malignant Apparently adenomatous furnors of the breast in

omen over lorty years of ge should be looked about with great suspecion as they are usually malignent

Roentgenography and transllamination of the breag offer little beip in the diagnosis The a thors behave that increase and examination of the emported res by the naked or is of the

greatest value. The surgoon abould be ready to do complete operation it mahammey is found microscopic examination abould also be made. The authors as of the objusts that he a computation of possible to core most cases of canons of the bersat. Markey IF POOLE, M.D.

# TRACHEA, LUNGS, AND PLEURA

Pottenger F M Nan-Operative Versus Operative Measures in the Treatment of Palmonary Described, As. J. H. Sc. 834, 122 69

According to the utbor the following types of believes Any post topological to the contract of the contract

Early hunted lexious of either the proliferative or the exudative type

More extensive proliferative lemons involving one or both hungs which have not formed extensive metastases or destructive processes with mulitiple merantam or community process with manifestations with the man be expected t heal as se expectou t near as russ sumous surgers seesaures, the healing of large ones without operative rule authort surgical and is more doubtful especially when the cavities are multiple Whether or not such lemons will heal depends to considerable degree on the extent of the penus to common some organs on the fattern or the injury high has been done to the lang there and the myary man one pecutianse or the long name and the seaso ith high the necessary compensatory changes bet een the lung volume and the intrathorage space

3 Exadative lesions more extensive than those of 3 Lineagure seasons more extensive man times to Group, with or without as my formation, provided the non-infected long tissue can take on the required complyaematous changes and the medicatmum is free t shift if its shifting is required by the compensation processary and provided other limiting structures are able t accommodate themselves to the reduced long volume The carl formation of cavit in emile tive t berealous will not prevent healing maless the cavity is held open by picural dhesions and fixed medicatinum or is so located that it cannot close

4 Estudative lemons high re accompanied by extensive telectana These will causily heal even hen they are accompanied by high temperature which requires several months to reach normal

According to the purely scientific viewpoint, there are practically no early cases that regularly require operative assistance However, in cases of more advanced disease there are several ty pes of lesion which cannot be depended upon to heal without operative

Comparatively small lesions with a cavity which is held open by pleural adhesions and is prevented from closing because the unaffected lung venieu from closing because the unanected range tissue is not able to make the necessary compensatory changes Examples of such are apical or subtory changes Lamples of such are appear of such appears of such apical cavilles covered by a picular cap, especially those associated with fixation of the upper me-

Active lesions which continue to form metastases unduly long in spite of carefully followed diastinum

Lesions in which a destructive process is non-operative treatment seriously threatening cavity formation cavity formation threatens during the course of the course chronic tuberculosis it should be prevented by

Lesions which are prevented from healing by mechanical hindrances These include small cavities situated so that their walls cannot collapse, such collapse if possible as cavities in the apex covered with a pleural cap, small cavities in dense scar tissue situated in any part of the lung, small cavities near the hilum or diaphragm, extensive infiltration, with or without cavity formation, in which the tissues are put under marked tension and the compensation necessary for healing cannot be made readily, large cavities with thick fibrous walls, and cavities in a greatly contracted lung with displacement of the mediastinum in which further compensation cannot be made

Pottenger says that while, according to his experience, this grouping separates the cases which may be expected to heal under treatment by non-operative measures from those which require operative assistance, it does not represent the manner in which tuberculous patients are generally treated because operative measures are frequently found necessary to meet the evigencies under which the treatment is

# Cystic Disease of the Lungs J Am carried out Wood, H G

Congenital cystic degeneration of the lungs is an uncommon disease, but occurs much more frequently Wood reports sixteen He states that with modern diagnostic methods a roentgenological diagnosts should be than has been suspected made in a high percentage of cases. The greatest naue in a mgn percentage of cases. The greatest potential danger associated with the condition is secondary pulmonary infection In cases in which there is a bronchial communication an attempt should be made to produce complete occlusion as such a communication favors advance of the disease In some cases complete extripation of fluid containin some cases complete excipation of mine containing cysts has given excellent results. A number of patients who had infected cysts with bronchial communications were greatly benefited by bronchoscopic

aspiration followed by the injection of iodized poppy, seed oil This treatment should be considered for all seed on a mis meanment should be considered for an such cases. Diffuse, bilateral cystic degeneration of the so called honey comb ty pe is not benefited by any

The Development of Lobectomy and form of treatment Heuer, G J

Pneumectomy in Man J Thoracic Surg, 1934,

Rolandus in 1499 and Tulpius in 1624 performed lobectomies in cases in which the lung hernated through wounds in the thoracic wall Between 1836 and 1880, Similar operations were performed by

The year 1880 marked the beginning of scientific Torde, Hale, Grinnell, and Richards experimental work on lobectomy and pneumectomy Caperimental work on ionecromy and pineumectomy Gluck, Block, and Schmidt began the work on dogs At first they operated without an and labours are more than operated without an aseptic technique, with disastrous results Biondi asepute technique, with disastrous results Biondi in 1882, working first on normal animals and later on animals with lungs infected with tubercle bacili,

These early experiments were quickly followed by the contributions of Murphy (1898), Tiegel (1997),

The contributions of Murphy (1898), Heletad (1997),

The contributions of Murphy (1998), Heletad (1998), Helet was more successful

Friedrick (1907), Robinson (1908), Halsted (1909), Willy March 1908) Willy Meyer (1909), Robinson and Sauerbruch (1909), Moligaard and Roysing (1910), Schlesinger (1909), Moligaard and Roysing (1910), Schenelmann (1912). Hencing (1911). Garre (1912). (1909), Mongaard and Roysing (1910), Junesinger (1911), Garre (1912), Schepelmann (1913), Henschen (1914), Giertz (1914), and Kavamura (1914) As the result of their work negative pressure anesthesia was supplanted by positive pressure anest thesia, the high incidence of pleural infection was lowered by the application of the principles of asepsis, successful methods of treating the bronchial stump were det cloped, alterations in the pulse and heart action after pneumonectomy were investigated, and the obliteration of the empty Pleural cavity was found to occur through expansion of the remaining lung tissue One investigator reported a true compensatory hypertrophy of the remaining lung

compensatory nypertrophy of the remaining lung
Among later workers in this field were Cave,
Dunn, Holman, Reichert, Rienhoff, Andrus, and
the author In the period from 1914 to 1923 new
and more successful methods for closing the bronand more successful methods for closing the bronchial stump were developed. It was found that the main pulmonary vessels could be ligated with little or no alteration in the pulse and blood pressure and only a temporary change in respiration, that undue traction upon the lung during pneumonectomy caused marked irregularity in the day not occur of that in the day pleural efficient did not occur of that, in the dog, pleural effusion did not occur if infection was prevented that the large intrapleural cavity left after pneumonectoms was rapidly obliterated and that the compensation obligation of ated, and that the compensator, enlargement of the remaining lung is not a hyperplasia but a simple expansion due largely to dilatation of the atria and

the air sacs, other findings of importance were that pneumonectomy will not seriously affect the probable duration of life, that it is followed by definite the almost a many the blood more changes in the almost mass and in the blood more changes in the alveolar gases and in the blood gases together with a temporary increase in the red blood cells and the hæmoglobin to increase the oxygencarrying capacity of the blood and an increase occurs in the blood flow and pulse volume to compeneste for the temporary decrease in the total lines. volume

After such encouraging experimental findings are meons began a deliberat attack upon the lung of man However hile the experimentors were per fecting an ideal operation on the normal annual, the surgeons, operating on man, were confronted the problems presented by discuse of the brog which gave rise to a prohibitive mortality or serious comolications. These problems led to the development of the multiple-stage operations, by among others, Ballon, Smeet and Graham.

As the result of the extraordinary interest is lobectomy and posumonectomy in recent years new methods of procedure in both the one-stage and the multiple-stage operation have been developed. In the treatment of tumors of the broachi and hunes by lobectomy or pneumonectomy the one-stage operation has become the operation of choice. whereas for the treatment of broachiectoris the multiple-state procedure is considered to be eafer.

An attempt to visualise I ture progress in this said is hazardous. The trend all inevitably be toward the one-stars operation for brunchlecturis as well as for tumors. Accordingly there is need for further study of bronchiectams to establish new

indications for operative therapy

I D TEL WILLIAM M D.

#### SHADT AND PERICARDIUM

Candrado, F Wounds of the Rourt /Contriborate al estado de los hondes del cornada). Ree és carag és Barcalona, 1954, 4 65

Wounds of the heart involve the right and left ventricles with about equal frequency. It ounds of the surfcies are more apt to cause dangerous bemotthego than wounds of the ventracles. Unless the coronary arteries are divided, wounds of the interventricular sentum are not so dangerous as wounds opening the cavities. Gunshot wounds are more dangerous than incised wounds, and stab wounds much more dangerous than needle punctures

The results of wounds of the heart vary from instant death to dombility so ellekt that the injured person continues to walk shout. The chinical pecture of serious wounds is characterized by precontial pain, pallor shock, merked dyspoors, rapid shallow respiration, cyanous, a fall in the blood pressure, and a weak, repid, pregular, and sometimes imper crotible pulse. Frequently there is collapse and sometimes loss of consciousness. Bleeding may or may not occur from the wound

Hemonericardium is surrested by an increased ares of cardiac duliness, soft dutant heart sounds, cyanosis, blueness of the lips, and marked dyspuces Y-ray examination will establish the diagnosis

Aspuration of the persondium to relieve pressure on the heart may prolong life until the heart can be exposed and sutured I cardiomhaphy a borseshoeshaped flap including the fourth fifth, and sixth ribe and cartileges and hinged on the lateral side is made. The pencardrum is opened, clots are removed. and the wound in the heart is closed by interrupted sutures of fine silk with care to avoid the coronary **Voncis** 

The author reports in detail a case in which both ventricles and the lateryentricular sentum were plenced by a stab wound and injury of the left pleural cavity and lung produced hemotherax and pneumotherax on the left side. The nations hved state-eight bours after cardiourbaphy and died of bronchopseumonia in both longs. A topsy showed that the wounds of the heart had been closed satisfactorily and there had been no postoperative kemourham. Witness R Merces M.D.

### MINICESTATEORS

Coletti, D. A.: Transcatio Lacoration of the Displanate. Hernia of the Stannach and Solven Cacuranous transmitta del deltarana Lirala dello storenco della meles) Arch. stal. de 40 OLL 15 44

The case reported was that of a man thirty-two years of age abo was hurled long distance in an automobile endent II was unable to call for bein and was not discovered until some hours later. On examination, the upper part of the abdorsen was found distended and there was intense pain in the epigastrium. The base of the thorax was widened and the sternum pushed forward, the intercostal spaces being becreased in width, more on the left than on the right side. The patient suffered from intense dyspoors and aboved affect cyanosis Respiration was short, superficial, and of the upper coatal type. The picture suggested suprare of the disphrupa

Laparotomy disclosed a long laceration in the left alde of the displanger with bermation of the storesth and spices int the theracic cavity. The stomath, which was encounously distended, was partially reduced though its reduction was very infinite on account of the negative pressure in the thorax. The solven was reduced to its normal position. ... ature of the wound is the displicages, which was closed by the fundus of the stormen, was impossible patient died about nine hours after the operation

This was not a tree berein as there was no mic. In traumatic laceration of the displayers the per stoneum and the disphragmatic plears are generally torn also. During the war many cases of transmatic displiragmatic bernia were disgnosed by roenigen Unlike congenital disphragmatic commission berms which, for embryological reasons, generally occur t sak points in the disphregin, treametic hernin may occur anywhere. However the latter are more frequent on the left side than on the right ade, probably because the liver and its ligaments provide satural support and protection for the right side of the disphragm.

Awarer Goes MORRAY M D

Charbonnel and Darmaillacq Intercostal Hernia of the Large Intestine of Spontaneous Origin (Herme intercostale du gros intestin d'origine spontanée) Bordeaux chir, 1934, No 3, P 164

By the term "intercostal hernia" the authors mean the passage of a portion of the contents of the abdomnal cavity through an opening in the diaphragm and intercostal muscles As a rule hernize of phragin and intercostal muscles the first present of time after a this type appear a variable length of time after a occur in the anterior region of the last intercostal direct injury of the thoracic wall spaces on the left side, the liver theoretically preventing such hermation on the right side For the development of an intercostal hernia after trauma it us necessary for the diaphragm and intercostal spaces to be injured at the same time Rise and Alquier to be injured at the same time. Alse and Alquiet suggested that the pleural cul de-sac, frequently suggested that the pictural cur de-sac, frequency obliterated by adhesions from pleurisy, may play an important rôle in the formation of intercostal

The intercostal herma is manifested clinically by a soft, reducible tumor which transmits an impulse when the subject coughs It is usually well borne, but in some cases the patient complains of vague dull herniæ

The omentum is incarcerated most frequently and pain and digestive symptoms the left part of the colon next most frequently Much less common is incarceration of the small intestine Incarccration of the stomach is rare

The authors report a case in which there was no history of injury and the hernia was on the right side. They attribute the herniation in this case to They state that for the development of an picurisy liney state that for the development of an intercostal hernia on the right side two factors are necessary (1) a lowering of the liver which leaves a space between the conver surface of that organ and space between the conversurface of that organ and the cupola of the diaphragm, and (2) histological

From the case they report they draw the following degeneration of the diaphragm

The apparently spontaneous appearance of a tumefaction on the right thoracic wall in the absence of a history of trauma does not necessarily rule out conclusions the diagnosis of intercostal herma

- The diagnosis is facilitated by roentgenological study of the intestinal tract with the aid of an opaque The treatment of intercostal herma is surgical medium

Surgical Treatment in Fourrington, S W Surgical Freatment III Four-teen Cases of Mediastinal or Intrathoracic Perineural Fibroblastoma J Thoracic Surg, Harrington, S W Perineural Fibroblastoma

The clinical symptoms, surgical treatment, histological findings, and operative results in fourteen cases of mediastinal and intrathoracic perincural fibroblastoma are summarized and four cases are reported in detail The most important factors in the surgical treatment are early recognition of the tumor and its immediate surgical removal even if it causes few symptoms The most important indication for surgical intervention is the possibility of malignant change Even when these tumors remain bengn, grave complications may result from pressure on the surrounding structures, particularly the spinal cord, trachea, esophagus, and lungs The technique of operative removal of these

growths depends upon the indications in the pargrowing depends upon the indications in the particular case. The posterior approach is used when ever possible and in all cases in which the growth is in the posterior mediastinum When the tumor is in the lateral wall the incision is made directly over the growth The tumor should be removed in one stage The attempt should always be made to perform the operation by the extrapleural route, but in most of the cases reviewed, a transpleural operation was necessary because of adhesions and the site of the growth
The surgical risk is greatly increased by cardiac lesions In the cases reviewed there were two operative deaths, each of which occurred in a case with associated cardiac disease The one patient in the series who had a malignant tumor died from recurrence two and a half years after operation The eleven patients who had a benign tumor are still completely relieved of their symptoms and free from evidence of recurrence, from one to seven and a half years after the operation

## SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONSUM

Schner W. Lat Results of Radical Operation for Inguinal Hernis in the Male (Spectreniate sech Radik kepration des maesabelees Leatenbreches) Desiche Zieler f Chr. 234, 343 56

Through the after care service of the Basel Chair t was possible to trace and collect statutics regard lac 73 per cent of all patients he had been operated unon for herms during the years from ago to ago Altogether oad rutsents were re-evamined, of hom 87 had had an operation for recurrence and As a primary operation for berms. Of the latter, 55 re operated upon for direct berma and 456 for an insurent hernia. There were \$2 concernies herman, is of which are negreerated, and it strangulated herese 7 of both ere recurrent lo addition to the operations for hernia, all appender tomics, a operations for ancoccie se operations for spermatocele, and 23 operations for indescended testicle were performed. Of the ,841 cases in which primary operation for herma as done () oon of which the operation was undatered and of of which it was bilateral) recurrence developed in 56 (3 per cent) and of the 87 cases to which operation was performed for recurrence of herasa, another recurreace developed in ( 3 6 per cent). The nead-near of recurrence as the same after undateral and bilateral operations, advesting that the danger of recurrence is not mereased by operating on both sides I the \$ cases of incarcerated herica, in chiding a of recurrent berief, the incidence of recurrence as 16 per cent. This percentage atproximated that in cases I uncomplicated bernia because incarceration is most ant to occur in because parton aperture whah are asstonically layorable types of herms and because, to the Rajel

undirect berma.

Ta the Bassi Clinic the Bassion and Gurard operative methods are used. Other more or less recognised methods to employed to useful on 1 permit their it tutural evidention. Side of the methods of the state of t

Chine, strangulated because re operated upon only

by expenenced surgeous (if the 83 congenital

bernire, 5 era incarcerat d The beence of re-

currence in these cases is attributed to the fact that the patients are children and owing men, in all of

bom the fascier ere ell developed. Recurrences

occurred in 6 per cent of the 55 cents of direct bernus and is only 5 per ent of the 456 cases of

total number. Of 43 cases with deep sentic funcial suppurations, recurrence developed is only per cent. This frare disproves the idely accepted theory that suppurations result in a high rate of recurrence. In 20 cases of acrotal hornstons the incidence of recurrence was so per cent. Of 17 patients with broochits or broochonocumonia, so ( per cent) developed recurrence In the cases of postoperative pulmonary infarction and infarctionpotumotes returrence was prevented by the firm scar formed as a result of the prolonged led rest The duration of the bed rest averaged cight and three tauths days. The patients with recurrence were out of hed after an average of seven and four tenths day. The a thor recommends eight days of bed rest for the average patient operated upon for berms and from ten t fourteen days of bad rest for patients ith poor fascir II states that work should not be resumed until from four to A works after the operation. In the reviewed cases in high operation was successful only 50 per cent of the patients were constitutionally inferior whereas in the cases with recurrence t o-thirds of the patients era constit tionally inferior. The danger of

recurrence increases lib age. Among the late complications in the cases reversed was atrophy of the traticle which occurred is as cases. In 6 cases it was attributed to a scrotal karmatoms so cases, to devision of the spensatio cord in 6 cases, 1 injury of the spercentic artery in Case to the Schmieden operation in 6 cases, to an operation for expernital berms and m case to a attraction operation for hydrocele with strangulation of the spermatic artery T out; of the nationts ith testscular atrophy were operated upon by the Baneni method and 4 by the method of Grard Postoperative elevation of the testicle occurred in 20 cases in which the Bassid operation was performed and in case each in which the Hischenbruch and Girard operations were done. Inguisal neuralgadeveloped in 8 cases I 6 it followed the Barnel operation, and in the lurard operation. There ere

so distortances of genula function
(0/ \$\phi\$ periods operated | not or a first recurrence,
(1 or com) had another recurrence of 6 operdefunction of the function of a first recurrence, and the function of a first state of the function of a first state of the function of a first state of the function of the function of the function of the preference are the type of the hermat, the patient constitutions and ge, and the techniques of the operation. If the review of cases of recurrence particular high incodence of constitutions in directory in the function of the functi

second recurrence the average age was fifty years. The chief causes of recurrence are changes in the anatomy of the inguinal region produced by the first operation, a lack of strong normal fasciæ, and poor circulation. Of the 87 recurrent hermin reviewed 20 were direct and 67 indirect. Of the former, 25 per cent recurred, while of the latter, only 10 per cent recurred. Of 46 cases in which the Bassini operation was done, recurrence developed in 7 (15 per cent), and of 35 cases in which the Girard operation was done, recurrence developed in 2 (57 per cent). Of 4 cases in which the Hackenbruch operation was performed, recurrence developed in 1 (25 per cent), and of 2 cases in which the Gelpke-Penz operation was done, recurrence developed in 2 (100 per cent).

Fulures may be divided into 2 groups according to their causes. The causes in the first group are the patient's age and constitution, the type and size of the hernia, and the anatomical condition of the groin These factors play an important part in recurrence. In the second group the causes are errors in the determination of the indications, the pre-operative preparation, the operative technique, the choice of method, and the after-treatment Failures are always due to one or more of these factors author discusses the individual factors of both groups He agrees with Noctzel that operation for inguinal hernia should not be attempted by inex perienced surgeons, and that before any endogenous or exogenous factor is blamed for failure the re sponsibility of the surgeon for the unsatisfactory result should be ascertained. Of great aid to success ful operation is the Henschen inter-inguinal incision which gives access to both sides Except in children, all hernix may be operated upon under local anxithesia Hæmostasis must be very exact. There is a greater tendency toward hæmatoma formation after the Bassim operation than after the Girard operation In the author's opinion, the suture material is of secondary importance The knots should be very firmly tied. The hermal sac should be removed high up and the stump should always be transplanted Lipomata of the spermatic cord should always be removed The nerves of the inguinal region should be spared as much as possible

Of the 68 recurrences reviewed by the author, 18 (26 4 per cent) appeared after three months, 13 (19 1 per cent), between the third and sixth months, 7 (10 2 per cent), between the sixth and twelfth months, 10 (14 7 per cent), between the first and second years, 5 (7 3 per cent) between the second and fourth years, and 15 (22 per cent) after four years. All of those which developed three months after the operation occurred in manual laborers who resumed their work too soon

In discussing the choice of operation, the author recommends the Girard and Bassini methods. He recommends the Girard operation especially because in about 700 cases in which it was performed the incidence of recurrence was only 1 i per cent and because it is followed by other unfavorable sequelæless frequently than the Bassini operation. In

suturing, whenever possible, fasciæ should be approximated only to fascia. In the cases of patients with large herniæ and those of older patients, semicastration is advisable

In conclusion the author states that, instead of adding new operations to the 40 already known, efforts should be made to improve the technique and climinate the sources of error and danger in the old and tried methods

(Schweizer) Leo M Zimmerman, M D

Mentzer, S H Bile Peritonitis Arch Surg, 1934,

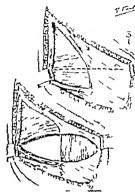
The conflicting chincal and experimental findings regarding the effect of bile peritoritis are reviewed Mentzer emphasizes that clinically, sterile bile is evacuated from the gall bladder into the peritoneal cavity only after trauma. In a review of twenty-four cases of perforated gall bladder he found that infected bile spread in the peritoneal cavity in eight cases In the remaining sixteen cases only pus exuded The end-results in this group of cases show that infected bile which spreads diffusely over the peritonical cavity causes death unless it is promptly drained by surgical measures. Death is the result of progenic rather than chemical peritomitis. Diffuse sterile bile peritoritis is rarely, if ever, fatal. If the bile is not encreted it produces ascites which may be drained Mentzer concludes that bile peritonitis produced experimentally in animals is not comparable to bile pentonitis in man

ROBERT ZOLLINGER, M D

Costantini, H., and Marill, R. The Advantages of a Large Muscle-Splitting Incision in Surgery of the Flank (Sur les avantages de la dissociation musculaire élargie dans la chirurgie des flancs) Rev de chir., Par., 1934, 53 497

For six years the authors have been using routinely for operations in the flank an enlarged muscle splitting incision, a modification of the incision of McBurnev In discussing it they enumerate the incisions usually employed to expose the lower part of the abdomen and give a brief review of a few of them (the longitudinal incisions of Jalaguier and Schueller and the oblique incisions of Lecene, Kocher, Sheede, Kuster, Koenig, de Guvon, Plan, and Bazz) All of these incisions are unsatisfactory as they give too little exposure or divide important nerves, blood vessels, and muscles

The incision used by the authors is started at the lowest point of the ninth or tenth costal cartilage and curved smoothly downward and inward to reach the midline two thirds of the distance between the umblicus and the symphysis pubis. It goes through the skin and subcutaneous tissue. The fibers of the external oblique muscle are then separated. The separation is begun at the upper angle of the incision and continued down to the fusion of the aponeurosis of the external oblique muscle with that of the internal oblique and transversalis muscles. The lower leaf is then retracted downward and out-



Above Third step Horasettal settlemines of the settleministers and transversals exceler prologied by settlem, also tenor exc., of the autono checks of the rectus model. This sections is made typically at a speal distance from the public and subblocks, but if secondary may be made higher or lower according to the lessons. Below Fearth step. Exposure of the peri onesies which is about to be undered.

ward to expose the internal oblings. The internal obisone and transversalis muscles are sensited in line with their fibers ( e in transverse direction across the abdomen) the separation being begun pear the anterosuperior spine of the three (typically half ay between the mbilions ad sympleysis pubia) nd continued til the Doneurosia is reached. The latter structure, together with the auterior abeath of the rectus muscle is then divided transversely as continuation of this part of the location. The rentoceum is divided to line with the transverse portion f the incision. The rectus muscle is retracted medially bile either the oper edge of the luctions is retracted upward or the lower edge is retracted downward, depending on the exposure desired Clorure is effected on anatomical lines by layers, with or without drainage

The a thore claim that this method avoids division of important blood vessels, nerves, and muscles gives excellent exposure in the petris and fank, and permits easy closure without the fixellhood of hernia formation. They have found it we desirable that they are using it for more and more conductons each year. The steps of the procedure are abown in Illustrations. Max M. Zervanza, M.h.

#### GARTRO-JETRATINAL TRACT

Rescurry S.1 A Contribution on the Chical Aspects of Tuberculosis of the Stomach (Em Briting mr Klosik der Blagtainberkulos). Irol J Hot. Chir., 834, 76, 550

T bereaksh of the stomach is an infraporat dosees both is samilated by ulter and hypertropis, and strophy of the gastric mucosa. Privary interestions of the stomach occurs only by incents interesting the stomach occurs only by incents and become lodged in the stomach. Scoodary interestions of the stomach cause be reased by incentation by swallowed or regregisted bettle bedflay emblod reaching the stomach by the harmategenous or lymphogenous roote, and spread the stomach by the properties of the most construc-

This stuber reports case diagnosed as or accountered stemos of the pytone which he cured by operation. A mobile prepylecte transcribe for child's beach of cartillagenous consistency from from aftersions to adjustment theory, and materocopically resembling a carcinose was bound. In the pattrocky lugament there was several emigred hypothese modes. After removal of the emirged hypothese modes, after removal or the emirged hypothese by end to-and masteoposis of the doubteral samp. The control this proofs—chronic filtron and shorts the thorizoness guartific—was made only on micro-

scopic examination of the specimen. The author states that when no rebercalous involvement of their organs can be found proportitive disposals a very difficult it post happosales. Therein bandli can be demonstrated in the gustric coatests only very rarely. E on themical analysis yields no todaction of tuberculous changes.

The best treatment for cure is radical resection performed as early as possible

(Book) Marietas J Servert, M D

Schooler E. A Study on the Cause of Death in High I testinal Obstruction. Observations on Chlorine Urea, and Water Acts cleany Scand 1934, 71 Supp 31

The whor first greet a historical survey of the representation of that has been done on their the representation of their than their done of their the principal factors to which death in high interdal obstruction has been accribed are auto-notacidian, infection, about, debt drattion, and chemical changes such in prochilegroums, accounts, and although I discussing these factors the author emphasizes repetibly dehydrators, dremmal changes, and the effect of the administration of hypertonic subor sol thou

If next report expensionits which he carried out on raise t determine bether death in high intestinal

ohstruction is due to loss of chlorine or water or both, and to ascertain the distribution of chlorine in

animals suffering from experimental ileus

He found that in rats suffering from high intestinal obstruction a considerable quantity of chlorine is lost into the gastro-intestinal tract with resulting hypochloramia and a definite decrease in the chlorine concentration of the skin, liver, and kidneys No changes could be found in the muscles, lungs, or spleen. In the brain, the chlorine concentration was increased

On the basis of these findings he states that the time of survival does not depend upon the degree of hypochloremia and that there is no evidence that death is caused hy a change in the chlorine concentration of any particular tissue or of the organism as

a whole

When the organism loses chlorine the serum chlorine is maintained at the expense of the tissues. The urine shows a pronounced chloropenia whether

hypochloræmia is found or not.

The skin and kidneys lose 30 per cent of their initial chlorine content and the liver about 20 per cent. On an average, the quantity lost from the skin equals one half of the entire loss of the organism. There is some indication that as a result of high obstruction, the skin loses its ability to store chlorine.

The rise in the chlorine content of the hrain is not specifically associated with intestinal obstruction alone, and there is no indication that it influences the survival of the animal. In the salt treated animals in which a general increase in chlorine took place the increase in concentration was relatively higher in the

hrain than in the other organs

The animals treated parenterally with a 10 per cent solution of sodium chloride lost, per unit, the same quantity of chlorine as the non-treated animals. However, the channels through which the chlorine was lost differed, the treated animals losing far less through gastric secretion and far more through the kidneys than the non-treated animals. The administration of a 10 per cent solution of sodium chloride had a pronounced diuretic effect.

The chief conclusion drawn from the experiments with hypertonic saline solution is that in high intestinal obstruction the covering of the loss of chlorine is of importance in the prolongation of life

In rats suffering from high intestinal obstruction no relation could be demonstrated between the quantity of fluid lost, the water percentage of the tissues, or the period of survival Dehydration could not be considered the decisive factor in the causation of death The administration of hypertonic saline solution did not seem to dehydrate the organism with ileus

Studies of the urea content of the hlood in rats suffering from high intestinal obstruction showed the content to he high. The azotæmia responded to the administration of hypertonic saline solution with a definite decrease. However, as it did not disappear entirely in spite of the chloride intake and as it bore

no relation to the chloride content of the tissues, urine, or hlood serum, or to the diuresis, the urea evidently increased to such a degree that it could not he excreted as fast as it was produced

The loss of weight of an animal which occurred during intestinal obstruction was twice as great as that occurring during fasting, partly because of the greater loss of fluids and partly because of the increase in the metabolism. The loss was greatest in the liver and spleen, where it amounted to from 40 to 60 per cent of the original weight.

Since the administration of hypertonic saline solution increased the diuresis and lowered the azotamia, its beneficial results are to he attributed to an increased excretion of toxins harmful to the organism Schnohr concludes that death in high intestinal oh struction is due to toxamia Harry W. Fine, M.D.

Gioja, E Duodenal Fistulæ and in Particular a Case of Duodenal Fistula as a Late Sequela of Hepaticocholedochotomy and Cholecy stectomy for Stones Duodenorrhaphy with Omentoplasty Cure (Sulle fistole del duodeno ed in particolare sopra un caso di fistola duodenole conseguita tardivamente ad epaticocoledocotomia e colecistectomia per calcoli Duodenorrafia con omentoplastica Guarigione) Archi ital di chir, 1934, 37 277

After a general discussion of the literature on duodenal fistula, Gioja reports a case of such fistula. His patient, a woman aged forty four years, was subjected to hepaticocholedochotomy and cholecy stectomy for cholelithiasis. The duodenal fistula developed forty-one days after the operation. As it failed to heal under conservative methods of treatment, Gioja performed a duodenorrhaphy and omentoplasty. Cure resulted.

Gioja classifies the various types of duodenal fistulæ, discusses their diagnosis and prognosis, and describes the conservative methods which have proved successful in their treatment

EUGENE T LEDDY, M D

Larson, L M, and Nordland, M Malignant Tumors of the Large Intestine 4nn Surg, 1934, 100 328

The authors review 210 cases of malignant tumor of the large intestine. The neoplasms occurred with ahout equal frequency in males and females. They were most common in the fifth, sixth, and seventh decades of life. The oldest patient was eighty-four years of age and the youngest fourteen.

The growths were located with the greatest frequency at the extremities of the colon. More than half of them were in the rectum, rectosigmoid, or lower sigmoid and theoretically could be visualized

through the proctoscope or sigmoidoscope

In ahout half of the cases coming to autopsy the malignant lesion was resectable by surgical methods as no extension or metastasis was found. In ahout a third, metastases were discovered in the liver or regional glands. Metastases were found in practically every organ in the hody. No significant

difference as noted in the incidence of metastatis associated the lesions in different sites

Obstruction occurred in 8 per cent of the cases The immediat cause of death as most frequently the minimum transition but a sescrited condition such as Cardiorenal, vascular or pulmonary ducase h pertrophy of the protate or cute appen dicits was a contributory factor lovering the patient resistance

Polyposis as present in localised or diffuse form In 16 cases In Il of these cases ther as evidence indicating that the manginant change took place in

McWhorter G L. Acut Di erticulate of the Co-cum; Right-Sided Symptoms with Diver ficulties of the Sigmond, Juny Clar Verté Am SARULL KARY, M D

McH horter reports for cases of intestinal diverticulates ith ) improme on the right acts of the

The first as that of boy nuneteen years of ge the first as that or toy numeroca years of ge who gave a history of the suckies onset of abdominal pain forty-eight hours before he came t operation The pain was referred t first to the mothers and seven hours later to the lower quadrant of the absevera sours acter to the source quantitati or the ap-domen on the right side There as no neares. vortiting distribute or constitution lest / ce the patient had had two previous attacks of a simila usture about at months text [threes] a summa macure amount at measure part, a nyacon communation revealed marked (coderness and muscle sparm in the lower right quadrant of the belomen Kertal examination as negative through muscle spiritude incassed disclosed, on the outer ade of the carcum, it industried man the mae of lemm, which as covered by Jackson mem beane The ppendix, high as free and long, as removed The mass the occum as join from the hase of the ppendix Its surface as covered the abrin Exposure showed t t be diverticulum completely filed by entrousied by broken dos secrotic walls The gan grenous as almost opposit the decreased praction The facabith and indurated edges of the opening of the di erticulum acturates tupes or the opening or the or extremom are soluted—th linen and catgot, the Jackson are sometime was soluted over the ree, and the

The second case as that of cars of ge bo as under medical treatment for years on an an annual memoral treatment for for three cela from cobely pams in the right lower darquant of the promen or omitted after the distriction of food. The social examination assessed tenderness and muscle spasm over the lower right acid of the abdomen. It exploration through right nector incluon, the gall bladder as found normal The prendi as long ad moderated congested, and contained i feculiths in its histon. The ppendix as imputated and the atomp invaginated centimeters from the poendix, in the lateral all of the cercum hard round man as found

This proved to be a small diverticulum completely And proven to the same of the men by a recently 5 cm in unmover rouseing femoval of the diverticulum the edges of the opening acre invaginated with a linen purearring and as outer catgut atture. The patient made a good

recovery

The third case was that of man fifty-one year
old whose chief complaint ass the onset of moderat ly actore pain in the loact abdomen one arck prariously and occasional vomiting during the last & days Examination disclosed marked muscle spaces with rightly over the entire lower part of the b domen on the right side. Rectal examination as negative The findings suggested cut negative The findings suggested out ppendicuts probably complicated by pentonits Under con processly comparated by periodics under con-sert, the treatment for tek the symptoms gradually abeled. Later X-ray commution should make bje quarticula of the admost and descratish tops and amount more more reserving to the support of the support o The fourth case reported was that of man stare az yezra od ar bose chief complaint paus in the loner right quadrant of the bidonen and cont the area reput quantum to the number and some lag over period of three cels. The leucocyte count was 7,500 Examination of the abdomes revealed a large as alling in the right lower quadrant in prep analysis sorners are pleased on belonging The man extended dos under Poupart Hgament nto the thigh As inciseon over the mass on the thigh systemated large mount of pes The tract extended lato the tim found After accord days a large amount of faces as discharged through the opening onto the thigh The wound besied slowh After bout ten erla 12 A roentern examination made later revealed multiple di erticula in the descending ad signoid per

thous of the colon. The patient has remained ell for In the discussion of these cases M Whorter mys that the frequency of diverticule of the intestinal tract is difficult to determine from routine atopales In the large bowel diverticule occur most often in the aground and the descending portion. Diverticular re-classified as congenital and cquired, true and felse A true intestinal diverticulum presents II layers of the intestinal all I the false divertica-Jum the musculars a absent Diverticula of the colon to thibuted t incremed termon fibut the humen of the bowel associated ith consupration and muscular calinous, and diverticula occurring in the amall intestine along the mesentery t

the blood wessels together—th traction culpess of Inflammation and perforation may occu in diverticule as in ppendicitia, but in such complications in di erticulum localizatio in more kleb ! occur than in similar involvement of the ppendix and the virulence of the infection is not so great as in the latter. In the acute stage, perforations abould be not red, decabiles removed abscesses dra ned, nd the di erticulum removed d'fenchie I the chrome condition malignancy may be suggested. If africture is present, resection ma be necessary ad should be done before becrue formation occurs

JOHN B VELLID

Invagination of a Haustrum of the Cæcum (L'invaginazione haustra cecale) Angeli, A

Invagination of a haustrum of the cacum or partial invagination of the walls of the cæcum was first described by Kylovsky in 1925, although it must have been observed by others previously must have been recorded in the literature The author reports a case which he operated upon The diagnosis has never been made during life. In seven cases a diagnosis of acute appendicitis and in one case a diagnosis of ileocacal invagination was one case a diagnosis of neocacai invagination was made. The author gives brief abstracts of the case reports in the literature. In all of the cases, the reports in the first, second, or third invagnation occurred in the first, second, or third

There are symptoms which should permit a haustrum, counting from the fundus diagnosis in the first stage of the condition when symptoms of pseudo occlusion predominate over symptoms of pseudo occidision predominate over those of inflammation. This period varies in length from week to years. from weeks to years The patient complains of irom weeks to years the patient complains of intermittent pain in the abdomen, particularly on the right side, frequent nausea and vomiting, transitory fever, and irregularity in evacuation of the bowels In the author's case the latter consisted of alternate periods of constipation and diarrhoca The picture in this stage suggests ileocæcal invagnation rather than appendicitis If the condition s suspected at this time the diagnosis can be con firmed by roentgen examination None of the cases reviewed were diagnosed in this way as none of the reviewed were diagnosed in this way as none of the patients came for treatment until the second stage of the disease when the signs were those of acute inflammation necessitating an emergency operation.

The condition is doubtless caused by increased The condition is doubtless caused by increased

virulence of the bacterial flora of the involved part of the intestine As a rule the treatment consists of simple disinvagination of the haustrum and closure of the abdomen If necessary, appendectomy and AUDREY GOSS MORGAN, M D

cæcopexy may be performed

Edwards, H C Diverticula of the Vermiform Appendix Bril J Surg, 1934, 22 88

The reported incidence of diverticula of the appendix ranges from 0.26 to 0.53 per cent Such diverticula have no distinct clinical characteristics They are found on routine pathological examination of appendices removed at operation for acute appendicitis Rarely, as in two cases cited by the author, they can be visualized by X-rav examina-

Edward's discussion of the pathogenesis of ap Edward s discussion of the pathogenesis of appendiceal diverticula is based on the pathological "There are two examination of nine specimens (1) hernial pouches of mucous types of diverticula (1) hernial pouches of mucous types forced through a gap in the mucole cost membrane forced through a gap in the mucole cost membrane forced through a gap in the muscle coat, and (2) distended pockets of mucous membrane and (2) distributed pockets of mucous memorane over which the muscularis will eventually atrophy so over which the muscularis will eventually alrophy so that a complete diverticulum, visible from the pertoneal aspect is formed. In all of the specific aspects as a value of the appendix should be used to appendix about the specific aspects. mens examined the wall of the appendix showed

inflammatory changes The absence of such changes in the walls of the diverticula leads the author to the onclusion that they are a contributory factor in the Chronic inflammation rormation of diverticula formation by causing contributes to diverticula formation by causing partial obstruction of the lumen of the appendix and formation of diverticula nealness and persistent spasm of the muscular coat The most common site of diverticula is along the

concavity of the appendix, but association with per-

In the majority of the specimens examined the forating blood vessels is not striking muscle coats were thicker than normal The author believes that this thickening may be due to contraction of the muccle with fraction in contraction traction of the muscle with fixation in contraction, traction of the muscle with inxation in contraction, hypertrophy of the muscle, and inflammator, is hypertrophy of the muscle, and inflammator, is hypertrophy of the important, Edwards believes, the spasm of the longitudinal muscle throwing the spasm of the longitudinal muscle spasm of grounds muscles membrane into folds. Spasm of grounds muscles membrane into folds. mucous membrane into folds Spasm of circular muscle obliterates the lumen, bringing mucous membranes in opposition. The opposing mucous muscles are the composition of the c surfaces pass into gaps formed by the passage of blood vessels. In this way the author explains obliteration of the lumen of the appendix Following such obliteration there is increased pressure distal to the obstruction, causing pouching of the mucous membrane which subsequently becomes first a herniation and finally a true diverticulum

Appendiceal diverticula may therefore be due to passive distention or irregular muscular action Predisposing causes are the presence of gaps in the muscular coats through which the vessels enter and weakening of the muscular coat as the result of

In conclusion Edwards says that it is impossible to in conclusion Edwards Says that it is impossible to diagnose diverticula of the appendix before operation chronic inflammation

D'Aunoy, R, and Fine, A Pseudomyxoma Peritonei of Appendiceal Origin Am J Cancer,

The presence of gelatinous material in the per itoneal cavity was first described in 1884 by Werth Werth called the condition 'pseudomyxoma peritonel" and attributed it to the rupture of a pseudo mucinous cyst of the ovary with resulting implantation of the cyst contents on the peritoneal The postmortem findings in a case of pseudomucinous cyst of appendiceal origin were first reported by Fraenkel in 1901 This condition is rare In a review of the literature the authors were able to find the reports of only ninety authorite cases. The single case found in the records of the Charity Hospital of Louisiana is reported as follows

The patient was a colored woman forty seven years of age who was operated upon for umbilical The hernial sac contained omentum and gelatinous material, and the abdominal cavity was completely filled with the gelatinous material Death occurred forty days later At autopsy, the abdomen was found to contain free fluid in addition to the jelly-like material. The appendix and creal bead formed a conglomerate mass consisting of a wall of fibron tissue encloding a cavity containing pursues that dust a large quantity of gristitions material. The disphragm was pushed up by the gristions material to be level of the third in The gris was partially obstructed for a ji fit prominal to the lococcal valve. In this pursue it would be rely admit the index finger. The pathological diagnosis was previously one predicted judged origin.

Pseudomyzoma peritonel is not a disease in itself It may develop from such conditions as ovarian cystadenomata, intestinal discriticula, mucocries of the appendix, and retroperitoneal cystadenomata. and may occur in the course of a recognized malienancy In the case reported by the authors the appendices origin of the growth was proved by the fact that the myromatous material was present in th cavity and the wall of the appendicual abacers but nowhere the The condition was evidently of long standing as symptoms of chronic obstruction were present at the time of the examination. This supports the theory that the growth is communitively benien and that death is usually due to observetion of the intestinal tract. The opinion is expressed that the majority of such tumors are cystadenomata

Iore W Neum M D

Vosicher F. My Experiences with High Rectal Ampuristion (Midse Erlahrungen unt der bohen Rectumsupnission) 38 T g d desteh Ges f Chir Berks, 934

In combetting carcinoms of the rectum Voelcker has performed high amoutation more and more often, bother the curemons was somewhat higher or lower if its aim was gradually to arrive at uni form operation with which he and his americants could become familiar. The advantages, flered by standardization of the operation are an exact technione, greater salety and the saving of time. The operation is semple. I the tirst stage, sugmond colost my is done and in the second, the main operation, the lower portion of the rect in including the area, is removed. The chief disadvantage of the operation is to high primary mortality. In the author' earlier cases it ranged bet een a and a per cent, but in his later cases it has been lower. In thirteen cases us buch Voelcker performed combased rectum externation in the last four years there were two deaths, a mortality of 5 per cent

The strutchi arms entableded in the first stage is suggisterated and mode through an uncasen on the left side. The operability of the curenous having been determined, the effects toop is closed and dropped back. The sum operation is done bout city days late. The same operation is done bout city days late. If the patient in high Trendel robury position. A median uncasion is followed by theretwo of the bowel from shower downward, lags toon of the easels in the memoratum, and blant dustertion of the hower's laft after down and as possible

The patient is then turned on his adsones and the bowel removed from below. His is then trend back and the peritoneum and abdominal wall are dead carefully. In spite of its locorrectione, the three fold turning of the patient is preferred by its surbaremovable turning became exact sources of the removable turning became exact sources of the completely removed and in absolutely sensible. Below the operation be satural axis is deed in

Before the operation the natural axis is doed by pursesting source By the procedure described the entire bowed is removed as a closed contine to the described the order of the contine to the control that the control th

does by him as it is nunecessary.

Of the to childres in colder's case, one was caused by polamonary embolism. The other current is a case in hich, during the main operation, as becase was found in the loop of loved which had been chosed during the periuminary pare. The eyes then was interrupted for fear of spreading the section, and four weeks later was undertained as a third stage. At that thus the cond was tall granulating. It apparently harbored more duage:

out organisms than was suspected. The patient died of peritonitis. This failure could have been percented by better technique at the preliminary operation. The operating time has been materially reduced.

In spite of the three changes of the patient's position, the operation requires scarrely more than one hour and sometimes even less

With regard to the late results the a thor so, only that some of his patients visit him from time I time and gratefully report their will being. They all feel quit attasfed with the artificial area. In three ones, examination of the criticates

be it arguest proved surprising as, hove the carcinoma for which the operation as done, it revealed one or more admitional cardinomats the existence of which had not been suspected. Schmidden has called attention to the importance of such facilities.

While his series of cases is not large \ onderer has gaused the unpression that if a surgeon and he assentiants become familiar with the combined higheretum exturpation, they \ \text{II} develop atandardized operature procedure which, in spits of its maguzade loses much of its former terror and danger

(VORLERS) Leo M. Zanconcas, M.D.

## GYNECOLOGY

## UTERUS

Meigs, J V Prolan in the Treatment of Abnormal Uterine Bleeding New England J Med, 1934, 211 289

In the author's use of prolan in the treatment of abnormal uterine bleeding from 500 to 1,000 rat units are given over a period of ten days. The treatment is administered during the bleeding or begun ten days before the expected time of menstruation. Local reactions occur only occasionally. The response of the bleeding is occasionally extremely rapid, occurring in one or two days, but sometimes is slow, requiring from ten to twenty days. If one treatment is unsuccessful repeated treatments are given. From six to eight series are given

In the cases of eleven patients with a normal menstrual history who began to flow continuously there were seven excellent and four poor results

Of eighteen patients with too frequent menstrual periods, eleven were cured and seven were not benefited

Of seventeen patients who had a continuous flowing after a period of amenorrhoza corresponding to Shaw's Type 1, only eight were benefited The failures could not be explained.

In the cases of thirteen patients with regular but prolonged menstrual periods, there were six excellent

and seven poor results

Of the total fifty-nine patients whose cases are reviewed, more than 54 per cent were benefited. The use of prolan was considered preferable to irradiation or surgery especially as nearly all of the patients were between twenty and forty years of age. The incidence of childbearing was low, suggesting that abnormal bleeding of the types described is most common in women with unused sexual organs. In speculating further regarding this observation the author calls attention to the fact that chronic cystic mastitis, cancer of the breast, cancer of the endometrium, and tumors and cancers of the ovary are more frequent in sterile than in fertile women.

Curettage proved to be of no value in the conditions discussed. The good effect of the prolan treatment lasted for from three to eighteen months Frequently the bleeding recurred after three or four months but responded again to treatment.

A. F LASH, M D

Phaneuf, L E Radium Therapy in Uterine Hæmorrhages of Benign Origin New England J Med, 1934, 211 304

Radium employed in suitable doses and in properly selected cases is a valuable agent in the treatment of uterine hæmorrhages of benign origin. It

finds its greatest field of usefulness in the treatment of severe hæmorrhages occurring near or at the menopause from uten showing no gross macroscopic lesions, such as those occurring in hypertrophy and hyperplasia of the endometrium and uterine fibrosis

In the hæmorrhages of adolescence radium treatment to avoid hysterectomy requires caution and should be used only after medical, endocrinal, and hæmostatic treatment have failed The dose should

be very small

Because of the danger to the products of conception from irradiation, radium should not be used to regulate the menstrual periods or in an attempt to favor pregnancy

Radium is of value for the treatment of small fibromyomata of the interstitual type, especially those occurring in women nearing the menopause

It may be used in conjunction with operations for repair of the cervix and for cystocele and rectocele as it does not in any way interfere with healing

A single application giving an appropriate dose is sufficient to bring on permanent amenorrhoea

If the patients are properly selected the mortality should be mi

Successful treatment of uterine hæmorrhages of benign origin requires only a small amount of radium (0 050 gm) and minimal apparatus

ROLAND S CRON, M D

Smith, F R The Incidence of Vaginal Fistulæ in Patients with Carcinoma of the Cervix. Am J Cancer, 1934, 22 52

The development of a vaginal fistula in carcinoma of the cervix is primarily a manifestation of advance of the disease. The incidence of vaginal fistulæ is twice as high in untreated as in irradiated cases. In cases treated by irradiation the incidence is increased by (r) interstitial irradiation with radon, (2) lack of filtration, (3) repeated treatments, (4) infection, (5) certain structural characteristics of the lesion, and (6) the performance of hysterectomy before the irradiation. Mentioned in order of decreasing frequency, the types of fistulæ are (r) the rectovaginal, (2) the vesicovaginal, and (3) the combined rectovaginal and vesicovaginal

J THORNWELL WITHERSPOON, M D

## ADNEXAL AND PERIUTERINE CONDITIONS

Kahn, M E, and Norris, S
of the Fallopian Tubes

Am J Obst & Gyrα,
1934, 28 393

The authors report four cases of primary carcinoma of the fallopian tubes. Two of the patients were only eighteen years old. The authors state that while the importance of inflammation as an etiological factor is disputed, three of their four patients showed evidence of chronic inflammation clinical diagnosis is extremely difficult. Hope for increasing the frequency of diagnosis lies in keeping the possibility of the condition in mind

At operation, the lexion often simulates chronic tubal inflammation or tuberculods. Opening of all tubes and their inspection for papillary growths t the operating table, as advised by Gunta, would aid in the diagnosis and the institution of the proper

surgical treatment

In the cases of omen more than forty years of age a negative curettage with history of irregular bleeding or brownlah or bloody discharge is augresti c of t bal carcinoma. In such cases the does should be carefully palpated for enlargements I DE AND L. COUNTIL M D.

Montgomery J B., and Farrell J T J Results of Postoperative X-Ray Therapy in Carcinoma of the Orary A Series of Twenty Two Cases. Redulegy 934 3 57

The diagnosts I the ruenty t cues reported by the authors was proved by hutological examination of removed tuene. The diagnosis was adenocated nome in fou papellary admocarcinoms in three, napillary cystadenocarcinoma in fourteen, and granulosa cell carcinoma in one. The cases were do kied fato three histological grades based opon the degree of anaplasis as indicated by the extent of cell differentiation, variations in cell size and shape and nuclear changes. Clinically the cases were chambed by Schmitz' method of classif ang carcanometa of the cervix

Roentres treatment was started from tw 1 four

necks after operation. Prior t. August, 10.7 massive.

doses were at each a single sitting at right angles t one of three or four pelvic ports. The factors of such treatment ere i ma from 170 t 200 kv filtration with a same of copper and a mm of aluminum. skin-target distance of 50 cm and ports of 6 or to so cm. The dosage as the quantity the skin would tolerate given in from three to lour days With the use of the factors cited the crytheusa dose as yours was After tugest, ory the saturation method of Pfabler w employed to the so of three or four ports. Depth-dose graphs ere used ad the doszer as measured I roratgens I the period from J must, oss, t A guit oso, the erytherna als was off r Since largust, oso, it has been \$00 I all cases an effort was made t give the maximum irradiation buch the trisces would tolerate, using four privac ports. The treat ment as given on alternat days, and an attempt was made t deliver a depth dose of from ,600 t 200 in for weeks to three cases radram as used

Diarriora was not uncommon, but did not become actions and was not considered an indication for stopping the treatment Ten of the patients whose cases re resewed had low grade of malignancy t

are dead, and one

maternancy of Grade

Of these seven are al-

cannot be traced. The average length of survival to date of those still allve has been thirty-eight mouth. while the verser leveth of survival of those who dewas alr and a half mouths. Of the five patients with mallemancy of Grade 2 (intermediate grade) all avdead. Of the seven patients with malignancy of Grade a (bigh grade) six are dead and one is still alive after more than six years. The promosaried Ith the grade of malignancy and the operability of the t mor

The most frequently encountered tumor was the parellars cystadenocarcinoma. Of fourteen patients with a peoplasm of this type, four are still air. after more than five years. The only other patient still live after five years had granulosa cell carelnosa.

Jth malumancy of Grade 1 The uthors conclude that irreduction frequently

resulted in pulliation of the symptoms and prolongs CARL E BUTTE, M D tion of life

#### MINCRITATIONS

Serdakoff M G., and Laviskala, M. K.; Blood Transfession in Certain Gynecological Cond. tions (La transfesion sanguae desa certaine alfections gradeologicami Grade at abil 414. 10 10

This raicle is the report of sandy instiruted by the Scientific Institute of Moscow for the Protection of Maternity and Infancy It had been noted that blood transferion, while frequently carried out in general surgery as marrier resorted t in gyneco-logical practice. The a thora purpose was to determine the indications and contra indications of transfusion in certain gynecological affections. They investigated ( ) the comparative advantages of direct and indirect transitulou methods, ( ) the fate of the transfused blood, and (3) the mechanism of

the effect of transferion pon the recipient In Russia there appears to be a distinct preference for the indirect method of transfusion, chiefly because the direct method is technically more difficult, but also because suft ble donors are not always readily available According to the findings of the Institute of Blood Transfesion, citrated blood may be preserved for as long as twenty-to days. The raticism that preserved blood may harbor infection is answered by the statement that bacteria, if persent, re usually tremusted and do not offer a serious menace According to the uthors, there is little evidence of biological difference bet een whole and clusted blood

The f te of translused blood is the subject of controversy I general tis believed that the length of survival of the crythrocy tea depends entirely pon the hemohatic index of the recipient

The mechanism of ction of transfused blood is complex Besides restoring the intravascular pressure, the transfered blood has a outritive effect activating the neuromescular apparatus of the heart. It reduces bormonal deficiency by lacreaung the oxidation processes, nd, by means of its saits and albumans, xertes the hematoposetic functions, stimubring especially the hose marrow. It side in over coming infection neutralizes toxins and incinents

Dorth read in fro a transmission I as been attrib and a filt technique and to chancel changes the Prove on congulation de tod selectimes then columbem ibere ne

moral sublin between the donor and recipient The a thoughes the following indications for blood tempter in the the follows (t) sente and chronic

then to the man him to the second to the to the the ectiple persince is alcounted to an one for to nabert beachast a rente and chronic purulent intections of the alrest of hem where (4) delived museum et and tent tent mile (2) et Girli Herdan tim tem cancer for his aberture Less to o to b deut out to strapted and (2) but

the since has recover to reside to stelling I such the increase the fights of the orkaniem and beauty extensive a their intercution with a In et par di t In mini in the it Petents bestoletst comb, cataly all catalog space sug have the Contribution of the course of extensions in often improved the prisent's condition sufficiently a betail third such I near the intellectively a bell to the suffer and anomal in section of the control of the c impore the resist or of the organism igniest mice in the transfer in the internal in the inter

coton ral pr che

Marian, G. The Formation of a Continent Crether in Nonra and the Lee of This Operation in in mounting of the Bladder. He is con number d'entitere ment et en liter mert de nemploi ו שחל ז רבה ל מיוור בני למיר

About icrear abothe setho tebute frieman birdier the lover vall of which are as highs torn duting labor that the obvining alloyed complete

hernition of the posterior wall of the bladder Merceloning the terr he reconstructed the urethra he placing a tubular krift from the vigina in a numel like opening formed bets cen the bladder and the rule i ath i long troots. The result of this oberation as a so excellent that continence and are nation vere practically normal

performed the operation twelve times Reconstruction of the urethri can be accomplished also by milling a simple tunnel lil c opening and introducing a cound into it After a time the

can't becomes covered with chithelium sults seem to be the same as then a tubular grift

is placed in a timed made a tili a trocar The ne arethri formed with or without I krift

mustle witched for a long time. The patient should be instructed to pres a bourse at first daily and then or instructed to pass a pointer at the first the first three at longer intervals. The inthor dilates the first three The urether formed by the procedures described dightly every three or four weeks

is prient and continent. But the continence is patho logical being due to the formation of abrous tisme

The inthor mentions ilso i ciec in which he firmed 1 arethra me verte ago. After the operation around the ne can il unation and urinary continued over entirely normal Recently the patient developed a cystitis thich is found to be due to i stone in the bludder The author as able to perform 1 erstoscopic ex amin than and to crush the stone with a lithotrite

Marion has used the described method also in the treatment of exerciplis of the bladder. He describes through the new cin-1 and sho s he illustrations his aperative technique

in a case of exstraphy of the bladder in a little girl and mentions the few differences in the operation performed for exetrophy of the bladder in males

# OBSTETRICS

# PREGRANCY AND ITS COMPLICATIONS

Brooks, R., Roberts, R. E., Bristow W. R., Vanahan, Les and Others: Discussion on the Physicistry A., and Universit Description on the Corposition and Pathology of the Petric Joints in Relation and resources of the real state of the Lond

BROOKE stated that the sacro-like joint of the counte, unlike that of the male, undergoes a rapid increase in mobility from puberty to the age of thanth that hasts buttered increases its morepity further the range of movement at full term being increased two and a half times. After parturition the joint slowly returns t normal in bout three months. There present to some relation between the involuntary changes in the uterus and those in the ligaments of the secro-bac joint, delay in return normal in one frequently coherency with similar delay in the other Brooks advocates enorther in the prone position for young females to conserve the morement of the sacro that joints for the child-

central person.

ROBERTS reported measurements of the petric
joints of pregnant and non-pregnant women by joints to premiute and manufactures where the carriers for These showed that the symplectic public definitely increases to waith during pregnancy more in multipare than in primipare and rething t normal some time after beamines of the tarns t memas some una autre parturnation for ther pre-clable widening was noted during par-turition. The secro like point shows alight increase is sadily during becaused, and after betterpool returns almost to normal These changes in the symphysis publis and the sacro-flux younts permit tary movement t the sacro iliac joint

Heterow stated that melposture and perticularly Detailed state occurs in pregnancy are responsble for much of the back pain during and after pregnancy In this exapprated lordons the secret namy to the engagerated and the implemental joint more vertical, thus increasing the potential of sudden train upon the joint. In the automatal care the patient should be given instructions for correction of the staggerated forcious and should be fitted with

special cornet Brotton advocates the Goldthwalt brace. H stated that, after delivery, posteral training should be begun as soon as possible. T mobilise the joints fully and produce the full extension of the hip joint which is necessary for correction of the tilt of the pelvis, forcible manipulation under anesthesis may be required. Arthrodess of the sacro since joint should be the last resort

VAUGNAM called attention to the facrouse in the distance between the behas tuberoutles and the contained outwent the meaning constrained and the widening of the subpublic angle produced by the washing or the suspense angle produced by the squatting position. She stated that she had daily ered several women in this position

Roy discussed the change in the size of the transvery encourage in the privile order in various pressurements of the privile order in various pressurements and demonstrated that when the patient hes on her side with the thighs flexed and adducted the diameter of the outlet is considerably increased

HERRY S ACKER, Ja., M D Giacchi, N Active Expansion of the Unerse Ac conduct to Rismond and its importance in the through to austracts one its importance in the physiology of Prepinency (L'expanseo attre de period de la grounde et au salent dans le physiology of the phy

The active expansion of the pregnant terms demonstrated by Stament constitutes the bash of new theories reparding the physiology of preparary
The author pupal of Gainest, tryings his pre ceptor's views on necro-ovarian physiology and the topicorinetic activity of the uterus. Two cycles are described, that of the non-pregnant and that of the pregnant woman Each tyres has four phases. In the son-program state that first phase is from the the sample great state time first press or from the maintaining of follicles to overhillon (five or six days) the second, from ornistion to cospes hitem for mation (t manustral period from coopes between foreston to or three days) the third, the prethe beginning of mensionatio (from ten to twelve days) and the fourth, the period of menstration and beginning and accommending (abbanuage) ton (a.k.) It becaments the track to byrace are Mentical with the first two in the non pregnant state as facuadation occurs after organism the third phase is the preparaty phase with duration of approximately two numbered and eighty days, and the fourth phase is the postpartum phase with duration of pproximately forty days During these phases Shamen found toolcokinstic mescular ac parama on near round to the country of the country in close harmony with the secrous mechanism. The first and third phases are characterized by vascular congestion, and the second and fourth by constriction These phenomena are not confined to the vascular system, but are participated in by all

Other investigators also have distinguished two different attitudes of the uterine muscle, namely as active or contraction phase, and a passive or relara tion phase Stameni claims that even the relevation as not passare phenomenou of inertia bet an active phenomenon depending on the value in the same way as the contraction depends on the sympathetics way as the contraction depends on the sympathetic H dustingship four attitudes ( ) contraction ( ) decentraction, (5) retraction, and (4) deretraction, and (4) deretraction, and (5) deserting the contraction of the contrac tion These may be reduced to two (contraction and rotraction) and ( ) disstole (decontraction and deretraction) These phases soc () systole

ceed each other, with predominance of one or the other according to the phase of utero-ovarian function. Diastole predominates in the first and third phases, and systole in the second and fourth. These observations led to the formulation of the law of predominance and the law of periodicity.

In pregnancy Sfameni distinguishes two periodicities (r) primary periodicity, in which, during the first six months, diastole predominates and during the last three months it diminishes until systolic predominance leads to delivery, (2) secondary periodicity, which consists, in addition to the activity of pregnancy, of the phenomena of the menstrual cycle explained by the fact that the endocrine activaty of the ovary is maintained during pregnancy not only by persistence of the corpus luteum but also by periodic maturation without rupture, of many follicles Clinical proofs of this periodicity are seen in the growth of the pregnant uterus, menstrual crises during pregnancy, abortion coincident with the onset of periodic menstrual bleeding, and the occurrence in pregnant women of blood losses at the usual times of menstruation

The intensity of predominance is influenced by multiparity and age, a favorable action being noted up to the fifth pregnancy and the thirty-fifth year Constitutional factors are also of importance Sfameni distinguishes three constitutional types (1) the normogenital (menarche at the thirteenth or fourteenth year, menstruation occurring at twenty eight-day intervals, with a duration of four or five days and a blood loss of from 100 to 200 gm), (2) the hypergenital (menarche at the eleventh vear, men struction occurring at twenty day intervals, with a duration of seven or eight days and a blood loss of 500 gm), and (3) the hypogenital (menarche at the fifteenth year, menstruation at thirty day intervals, with a duration of only several hours and a minimal blood loss)

According to Sfameni, menstruation is an epiphenomenon due to degeneration of the corpus luteum resulting from the lack of decidual, placental, and myometrial hormones and changing the premenstrual endometrium into the menstrual type. The regression of corpus luteum activity gradually determines diminution of the diastolic predominance and accession of the systolic phase during menstruation or delivery. The change from the diastolic to the systolic tonus and vice versa suggests the existence of two antagonistic hormones.

Gracche attempts to prove that active expansion is a property of the uterine musculature just as it is the property of the muscles of the heart, lungs, blood vessels, and intestines, and that therefore expansion of the uterus during pregnancy is not purely a passive phenomenon responding to the pressure of the developing ovum. In support of this contention he cites the fact that during the first months of ectopic pregnancy the uterus develops at approximately the same rate as in intra-uterine pregnancy. Sfameni claims that the increase in the volume of the uterus and the size of its cavity is not due solely to muscular

hypertrophy or vascular congestion, as others have taught, but is a result of motor activity of the uterine musculature influenced by hormonal changes during pregnancy and menstruction. He points out that this enlargement in the first months of pregnancy is asymmetrical, involving the upper more than the lower segments, and at all times is greater than that which would be produced merely by ovular pressure. During the last trimester of pregnancy the lower segment increases more than the upper This reversal is attributed by Sfameni to a predominant attitude of diastole in the upper segment and of systole in the lower segment, the process being reversed at the end of gestation as a result of neurosympathetic changes This active expansion, according to Sfameni, creates a negative pressure or vicuum within the uterine cavity

The negative pressure is said to affect the site of fetal development and to play a part in the formation of amniotic fluid. In the latter, two factors are concerned (1) a mechanical factor, the active expansion of the uterus which occurs in three distinct ways, namely, by the force of aspiration, by distention and flattening of the amniotic epithelial cells with a change in their permeability, and by excitation of the amniotic epithelial cells due to the aspiration, and (2) a biological factor, the stimulating action of the hormones which changes the permeability of the amniotic cells

According to Sfameni, placentogenesis is also di rectly concerned in the process of active expansion The formation of the fetal membranes from the chorion lave and the decidur reflexa and of the placenta from the chorion frondosum and the decidua serotina is the result of (1) active expansion of the uterus, (2) intra-ovular pressure, and (3) intralacunar pressure The combined action of the first two results in the flat shape of the placenta, while the pressure of blood within the lacunæ determines the growth in the area of the organ Alterations of these factors result in marginal insertion of the placenta, due partially to deficiency of intra-ovular pressure and active uterine expansion, and to other placental anomalies such as succenturiate lobe. velamentous placenta, and remform placenta

Other phenomena of the physiology of pregnancy aside from these involving the uterus are attributed to tonicokinetic alterations of muscular tissues throughout the organism Reductions of capillary pressure are factors in the production of cedema A diastolic predominance of the biliary channels is claimed to cause bilirubinæmia during early pregnancy Varicose veins are attributed to the diastolic status of the venous musculature Constipation is said to result from expansion of the gastro intestinal muscles from hormonic action Giacche attributes all of the maladies of pregnancy commonly classed as to ramias to hormonic imbalance. He states that it is the exuberance of ovarian hormones which brings about the disequilibrium of the sympathetic system, just as their presence in normal quantities determines proper function HAROLD C. MACE, M D

42

### LABOR AND ITS COMPLICATIONS

Cattials, V., and Seydel, E.: A Note on the fathclogical Anatomy and Pathogenesis of (Galeset the Certz Utert During Labor (Note ser l'anatomie pathologique et la pathogene de Pathondu coi de l'attras au cours du travall). Gyale et sels 04.50 (

The authors observed the occurrence of cervical orders during labor in 93 of 45,600 deliberies at the Hospital Saint Louis during the part ten vers. It therefore occurred in of every 448 deliveries. The authors believe that its incidence is in reship much higher as when it does not cause dystocas it is

probably not recognized
Two types of ordens as neterified () the soft or
simple and (i) the hard with rightir. The former
shich is the more frequent, usually irreview the
anterior cervical lilp and rarely the nutrie intra-segmal
portion of the corry! Sometimes it is limited; the
mechan portion of the anterior is the continued; it
cleads to one or the other side. The energy is that,
doughty or resistant to the touch, forming large
veiling beneath the puber. On inspection, this
provides of the first of the content in side, justice, or
provides the first of the content in side, justice, or
the first of the first of the content of the first of
the first of the first of the content of the
recognition.

Hard ordema is generally less extensive, lavelving as rule only a promot of the cervit. It is dring to touch at its consistency resembles that of greaty leather. On especiation it has the appearance which; volacious, almost black cereis surveneed out hick, volacious, almost black cereis surveneed out feetal head. Its color is deeper than that of soft ordems, and the superficial portons in often

necroic.

The a thorn have examined cases of soft ordens and 3 of the hard warnety. Histohogical reministion show discountained of the momentum times there by find in the interstitial softence proposed to the attence and posterior laps? one care showed hitsis difference record to bestere of arrow inflining the more marked difference as noted. The reas of colors were law obstainable in the control of the colors of the c

and Improve the thisse spaces.

These s types of ordems represe t extremes be t cen buch many intermediate types can be recognized both classically and histologically. They did so only in the degree of dev lopment of the scross in-

diration or hemorrhage. Man, theorem have been dynamed t explain the pathogeness of the conditions of the basis of infection or or uterior merits. The thous reject them as either varior or immificient. They believe that cervain orders as described to compression of the cervain between the fetal head and the perfet. In their case, there we define these means are the conditions of the cervain the fetal head and the perfet. In their case, there we define this measurement due to perfet.

constriction, sharmed position of the fetus, or disproportion. They found continued privator a transverse position of the head in 65 large fetus in 1 a face presentation in 3 brow presentation in 2, and breech and absolute presentation in case each. I t cases the cause of the orderos—as not secontained.

The uthors stat that cervical distorts is assomated most frequently with transverse position of the fetal skall, this being due usually t difficulties of engagement m a flat pelvis With few exceptions. the cause of cervical ordens is said privic contraction or disproportion. The ordens results from obstruction of the blood and lymph. It relices occurs while the bag of waters is intact or the fetal skull rests hows the superior strait. Conspression of the cervix results only after the head exters the perrow pelvis. In the flat pelvis the aterior ho is compressed most often because the defenred shall. lying to the transverse desmeter of the injet, present apon the piersor are of the privis. When the compression is projouged the adema is usually of the hard variety which may lead to necroids and detachment of the anterior lip I generally contracted prives equal compression of the entire cervis leads to ordems of both hips and possibly to amputation of the entire intravague! portion of the cervit.

H MAD C MACK MD

Ghajibajar A., and Tamovata. S.: A Study Based on Transp-Four Years of Conservative Low Converses Section (Ends are resisting to souths to charactus bases transcription). Gyn's d shall 1914, 30. 5.

Bothing the cleath foour years period from not to go there as a gradual substitution of the concentrate section for the cleanced operation and with it change in the undications for the election of the it change in the undications for the election of the in 28,756 deliveries at the University of Strasborp faring this period gay low sections or performed but only jul ere recorded in sufficient detail to permit their inclusion in the suthern discusation. However is the justicled there was no maternal mentality.

In the 346 cases we have at there were 13 maternal details, maternal mortality of 4.3 per cent is not the deaths were seenhed to printonius. Of these, so occurred pose to 437 he the undications for the operation were first modified. I the 13 cases is which the operations as performed in the period from 9.7 to 9.35 there was only death from periodatis whereas la the 9.0 cases in which it was performed in the period from odd 1.9 y there can be period from odd 1.9 y there can be deather of death from that conditions. Also in the first condition. Also in the which

pened there were 3 cases of septeminis of which complicated by personalize of the 6 which deaths in the total number of cases, was due 1 broachoposemons and interpret in kemorrhage high this though tribut 1 this use of either annealment and believes would not have occurred spinal amenthems had here employed, and ere due to buller prairies if following piline inserticials



# GENITO-URINARY SURGERY ADRENAL, KIDNEY AND UKETER

Fuchs, F 1 The Relation of the Physiology of the chs, F. The Balation of the Physiology of the Upper (primary Freet to Filmbut too Property). (In this primary Freet to Filmbut too Property) (In this primary Freet to Filmbut too Property (In this primary freet to F

The use of descending or climination unography Are one or commonts or cummation understood has without doubt combinated to an understanding of the physicisty of the upper part of the urfary tract, that is to say the real peters and the urfary On the other hand, the results of alimination On the other hand, the results of elimination concepts by the very fixedly modeled by the physical legislations and part of the other by the physical control and the other part of the other pa commission of salaring conditions as the factors accurate bettere or existing constitutes as two metros and or districts and makes these contents to constitute to Continues to district come a change in march forces which affects the integer obtained. With the continues of almost a transformation, remarks the filling of the which enects the insiger obtained. With the court feedbackers of elimination prography the filling of the iccumptus or cummarism ungraphy as many or are bladder formers during the committee and it is transport formers usually the examination and it is impossible to determine the degree of filling. More outh the solution of quarter quite the benefit of the over the running or discress curing the property of the line possible to know whether or not change in the business to where accrets on box consider as the ACTUDO OF the DEPOS WALLEY UNIX AND STORAGE AND ACTURED TO COMMENT OF THE SECTION OF THE SECTION

by Canadas in comes caused by marcons and man ent on the appearance ractor and the same direction and or to obtain among the contract of the same antenna in ment pa borns to ment also that the concentration of the contrast condition in the estimated varies during the course of the crammation A certain exposure time is accessive for roent

generally as the periodic ware in the order amore about 5 cm per second. An exposure time of parties recorded that the abbantance of a column of contract of the second was extracted errors of tarre serond gives the appearance or a commo or mine about 9 cm, long makingsing a student periodicity of the may errosporate the may errosporate out functional arguments from By functional sea inaccental regimentation by innertional without the withor means a difference in exmension in since means a nucreace in come of different parts of the pper stratery fract tome or ansemble parts or the piper armory traces brought bout by changes in discress Those representations of the properties for differentiates be factors of an amic it impossible to differentiate be forced around and particlospical conditions to the per advantage of particlospical conditions to the control of both large. To differ the performance and of the conditions of directly account of the large of the conditions of directly account of the conditions of directly account of the condi-tions of the conditions of the conditions of the condi-tions of the conditions of the conditions of the condi-tions of the conditions of the conditions of the condi-tions of the conditions of the conditions of the condi-tions of the conditions of the conditions of the condi-tions of the conditions of the conditions of the condi-tions of the conditions of the conditions of the conditions of the condi-tions of the conditions of t and or the conditions of universe is necessary and time is impossible as both of these factors vary during the time of examination

Gibert, J. B., and Macmillan, E. F.
Kidney A. S. Surj. F34, too 439 AFDERY COM MORON M.D. Gilbert and Macmillan add two more cases of Cancer of the

injury, squamous call cardinous of the resul felvir formers agreement-cast carcinomas or the result permits to the filty five previously reported, and discuss the

relationship of the condition to infection, leukopiakia rea command on the condition to interior, killsparse, and calcula. They advocate removal of these licture and cacons they survive to constraint and the prophylactic measure. The treatment indicated as propagative measure too communication is surgical removal and deep X-ray irradiation

Monthsrinsky A.; Uterarecele (De Partitrocke) The pathogeness of arctireces is still the subject of considerable controvers. According to the subject of the the consequence of the country according to the contheory mean front any strategies, one have on the contransport of a valve balled its order, the angle formed by the creter with the wall of the bladder or former oy toe cirrer with the was or the former of the lettermine. portion of the arrier is the sole cause or a contribufory came

A streeture was found to all of the cight cases to Neward by the there is the control of the control o seem though plisting, was not consented for the reach of inflammatics or traumation. Monthorns. result or innamentation or transmitten. Atomication sky betteres that stellers is the factor of chief indicating the description of many or comcale in the presence of a micross and first part case in the processor of a minimum and press unso NATELN A WOMEN, M.D.

# MADDER, VERTIERA, AND PERSO

Francischi, E.; Technical Not, on the Extraction 

A suman came for treatment for what had been discreted as oftenine hierocribage. She stated that that the part of t as ned introduced seem rape soons or are see trabber with an olive Up int the aterns I being about abortion Examination about that the and had been introduced into the under one one of the band had been introduced into the under one one of the band and one of the band of t second and over introduced into the unreast and was facted in the bladder. Although it had been latter duced only three days previously it was been made and bombares It are temored by cacrusted with passaporates at was removed by deleting the uredays and meet of the blackler with a conting the ureases and next of the second with the the state of the s AUDIOUS GODE MOROLE, M.D.

# CENTAL ORGANS

Morror, A. C., and Semple, J. E. Allindy of the Continuous the literal Technique for Executive for J. Ural. \$44.0 sep. The anthors report forty cases in which prostate: only was performed by the Harris technique with

two deaths In none of the cases was it necessary to open the bladder for the control of secondary The authors have observed that patients operated upon by the Harris method are much more fit during the first few days after the operation than similar patients operated upon by hemorrhage

the Freyer or Thomson Walker technique Harris advocates a transverse incision, but the authors employ a vertical incision Bilateral section of the vas is done and the seminal vesicles are washed

It with a 1 00 solution of carbonic acid out with a 1 60 solution of carbolic acid carried out Hæmorrhage is controlled and the floor carried out trainormage is controlled and the noof the wrethra reconstructed as described by Harris A urethral catheter 15 left in place and the bladder remain catherer is feet in place and the bladder is irrigated every hour for the first day. The bladder is either closed tightly or a small rubber suprapubic either closed ugnly of a small rubber supraphible drain is left in When tight closure is made, the

By this method shock and hæmorrhage are suprapubic space is drained lessened and convalescence is shortened THEOPHIL P GRAVER, M D

A Contribution to the Study of ncescni, E A Contribution to the Study of True Prostatic Calculi (Contributo allo studio della calcolosi prostatica vera) Archi dal di arol, Franceschi, E

A review of the literature reveals that true stones in the prostate are not common The author reports a case in which a prostatic stone was removed

He states that stones may be present in the prostate for many years without producing clinical symptoms even when they are of the racemose type Symptoms even when they are of the facemose type of They may develop independently of prostatism of They may develop independently of prostatism of the They may develop independently of prostatism of the They may develop independently of prostation of the They may develop independently of prostation of the They may be a second of the They may develop independently of prostation of the They may develop independently of the They may dev with that condition Often prostatism masks the presence of stones until congestive or infective factor could be a condition or condition of the condition of th factors result in mobilization of the stones with the production of symptoms due to irritation Even the production of symptoms due to infradion average most accurate X-ray technique may fail to visualize the calcula, especially when they are situated deeply or are composed almost exclusively of urates When mobilized, prostatic stones may be felt with the

Surgical removal of these stones when they are causing symptoms is accomplished easily by the finger or an exploring sound suprapubic route even when they are situated deepsuprapuole route even when they are situated deep-ly As a rule it is possible to find a plane of cleavage representing the division between the zone of infli representing the division between the Zone of min-trated tissue and the normal prostate Occasionally it may be necessary to remove or incise an adenoma Observa-

ries, 1 G 1, and Mallieson, N M Coserva-tions on Carcinoma of the Prostate Bril J James, T G I, and Matheson, N M simultaneously

The authors report some unusual manifestations of carcinoma of the prostate which they found in a of about fifty cases of that condition In one study of about mry cases of that condition in one case the carcinoma spread to the perineum where it case the carcinoma spread to the permeum where it formed an indurated lump the size of a walnut which was continuous with a stony hardness involving the was continuous with a stony naturess involving the proximal part of the corpus sponglosum. Another

case presented nodules on the skin of the lower part of the abdomen and a nodule on the forehead. As a or the abdomen and a nounce on the toreneau and a rule only the regional glands are involved early in carcinoma of the prostate, but in one of the cases reviewed involvement of practically every group of glands in the body was found on clinical examination Bone metastases were found in nearly all late cases

The pelvis was the first bony structure attacked

Mintz, E. R., and Smith, G. G. Autopsy Findings in 100 Cases of Prostatic Cancer New England

In the cases of early carcinoma reviewed no evidence of metastases was found In the more advanced cases extension occurred most rapidly to the pelvic or retropentoneal nodes, next most rapidly

to the bladder and seminal vesicles, and least rapidly to the bladder and lymph nodes Visceral metastases occurred most frequently in the lungs and liver Osseous metastases were found in nearly 50 per cent of the cases

Aberle, S B D, and Jenkins, R H Undescended Testes in Man and Rhesus Monkeys Treated with the Anterior Pituitary-Like Principle from the Urine of Pregnancy J Am M Ass,

In the treatment of cryptorchidism a third possibility has been presented, namely, the administration of the anterior pituitary-like principle from the urne of pregnancy In most mammals the testes can develop normally only in the scrotum sooner undescended testes are placed in the scrotum the better are the chances for normal function Operative procedures have given satisfactory results

in from 50 to 60 per cent of cases of cryptorchidism In experiments, reported by the authors, six monkeys were used, one of which served as a control A total dose of approximately 2,500 rat units of the hormone from the urine of pregnancy was given to each Complete descent of the testes occurred in one and partial descent in four In the cases of partial descent the fascia about the vas deferens and spermatic vessels was found to be short

The authors report also the intramuscular injection of the hormone in the cases of five boys ranging in age from three to thirteen years In the first case discontinuance of the treatment was rendered necessary by a marked febrile reaction after the administration of 150 rat units In the second case there was no change in the position of the testis after the administration of 1,900 rat units, and nausea, vomiting, and pain in the inguinal region occurred after each injection of 100 rat units. In the third case the first injection was followed by fever and gastro-intestinal disturbances The testis, scrotum, and pents increased in size, but there was no change in the position of the testis after the administration of 2,750 rat units In the fourth case the testis descended to a midscrotal position after the administration of 4,525 rat units. In the fifth case,

in which there are two temporary reactions to the in house mere are two computers reserves on the the acrotum after the administration of

and in the case and there any change in the

Rubinstein II. S. The Production of Tenkrular

beauty with the 13 ter sol bis America leacent with the " err sor one (America) Enderreday 934, 8 475 Until relatively recently there has been no method

for the correction of endescended textlete except surgery As surgery has not aware been highly successful in kog beening the cord, the problem has succession to sugarantees are the superior standpoint Schapfro been shire ten from two monators and appears of majors and English find fair storms in transfers or majors described feathers by the Injection of Aschberg and Aschberg and Aschberg and Aschberg of the storm of the Confick prebotmone and extract of the anterior lobe Nonthe precommon and crirect of the anterior successfully frauday fland. The successfully (residuant to the control of the fland) in the first control of the control of th then were come in man for requires were in the figural case. The author reports case in high first treatment was successful ben the testical case and account of the case of t

The patient was a boy ten and half reaca old The family history as freely and hast read out The internal entertains and at parties and the second fitting of at parties and the second se departed in part forced it we do st the se of centered to see torons in set up at the fire and a half months, stood (the age of elements) are some and specific some time age or server months, talked I the go of fifteen months, and incurs, there is no are a mirror mount, and shed at the ge of arteen mounts. He pretty the property as bottenby are and be because the property and the property of the proper terring manay was neversity sarge and be became
perfolion, but your games of physical privates
perfolion, but your games of physical privates
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performed manay was neversity sarges and be became
performed manay was neversity sarges and became an

by man carametron disclosed openits of the prine and shoulder simile type. The fragers are relating On achieved the the the treates see that and the treates see the treates and the treates are the treates are the treates are treates and treates are trea there refer as absent herause of absence of the tere truet as smeat terange to smeate or intences from the screen for pens as extreme mail, only to an length, and nearly bursed to the last of the most pulse. The tentiles could not be behinded in either the extending of the intensity for the intensity of the batteried in errors to a married boy mines polyuna, noct has and enters a distribute of the paywar, note the and emittee a magnone or dys-

topics, measurement and tentral societies of the principle of an endocrine base.

The patient was treated on an endocrine base. the barner was retained on an expectant passes being given daily intramandate injections or the water solvhile fraction of pregnancy urns. After the solution of the solution water avising traction to pergander utility of the left testacle was found in the inguisel injections the set testice was touch in the inguises cand and the next (as) the right testice. 45 found taxing and the acti (as) the right tendore as sound the most. After treatment for three circles the the mons after treatment for taree cets the continued. entress stopped for inversions are continued daily for a months and then given three times sail sort months and sees given three times ex. After fit months the self testicle as comcar Auter M. mounts the set tenant a completely in the scrotnin, the right tenants was partially section in the period and the regard to a time in a particular, the period and normaled to 4 time in length to the control of the interest and Generation, the penis man increased to 4 cm to engage and the child had taken up bos sports such as food

thor reports also experiments which be carried out on whit Pate ( determine the effect of

this hormone treatment on immature storals. The the agreement of interesting the same in t supply teationist descent occurs in that skeins are as a second occurs in the skeins are a second occurs and a second occurs are a second occurs and a second occur Controls were used for each group. The duration of Controls were used from the treatment ranged the treatment ranges from touriers I calculy state that the end of the treatment the manife cre cast at the end of the treatment are manned on the finded and eighted and the transfer, penis, and times and expose and the texture, permy and plittlingsy pland for carefully dissected out and cithed. In all of the treated samuals these organ Cafford. In an on the creation animals these organisation arguer and heavier than in the control animals nero mercer and newsper used in the control sometime. The seminal resides of the treated actuals are tion remains reserves or the trained annual found distanced, but no spermetorous are discovered

Henline, R. R. The Differential Disgraphs and Olica, K. S., The Differences Designous Ex-

The rapid progress and mayorable prognosis of testuals temora myta certa quations basesses of testuals temora myta certa quations basesses of testuals to take the testual testuals and testuals to take the testual testuals to take the testual testual testuals to take the testual testua cracs of leatents are carry constrous insteautre. cracs of i entry and fifty years, with or labout a puriod, of range of precition implement specify in grant a grant of curt and milk hash said on many a innersy or transma or information management accounts a is the red from and occasionally nothing or start at as as per an man and occasionally memors or areas as soften are parpable. The fumors or fresh morning and not sensitive ! sentle pressure II) diorris or want not seeming a group because it) more so we want the lamost it) more so we want to be a seeming the seeming th exhaustoon perfore the restricts can be believed button Bloodstamed find in the tunes variation adjusted fraction of the characters [ survivases the cord b normal or only algebra behavior A the curve of which of supplied the best to the contract of the perculous, primary lovel streets of the epithdrals occups early and there is later more forms to the exposurement of Is many cases the seminal vesseles and prostate are

Commatons, tuberculous, and other acrotal become has frequently been confused with featicular Comor Occasionally they has been needlessly re compet or valuable time has been feet before the mores or variable time has been feat before the of the sex hormone of the anterior lobe of the or toe act nameno or toe anterior some or tre-printing pland (Prolan A) in the arms of men lib correct darpoons may be made roughly By dus tratter estimation of the Profits exercical, not only the presence of 1 mor but also the type of the prophesm may be determined before tow type to the tarupanent may be determined before treatment to test the dry buopay to done. The radiosensitivity of the tumor may also be determined in lites a littl, the original securit or litera or covered in determined. The furnor gross and force before, we then exposed to full what cryckers are the covered to the cov first, the original arount of Prolan A

space of pich soliate / 185 magazon pormose output drops sharply after the unadation formous output drops marky and the prognous good, bet of the quantity of Probata A secreted as not great the programs is not orally and radio If the therapy ill probably be f the When under the hetter coronatances there is no demonstrable sector treatments there are no temporarisms and the removed and the

## SURGERY OF THE BONES JOINTS, MUSCLES TENDONS

CONDITIONS OF THE BOXES, JOINTS, MUSCLES, TENDONS, ETC.

France J Acute Outsomyelitis. Brst. If J 92-

The author seggests that the localization of an abaces in the boos marrow athorogh creating difficult and regretable situation so far as the local infection and suppersuition are concerned may have a saturory effect as it may be the body's method of producing a defeature uses from which the factors of immunity may be developed. He argues that general blood bone infection may have hes serious consequences if the infection becomes localized in a bose abaces, at them is growing both that the nowe above, at them is growing both that the portion of the longer of the control of the longer of the localization of the longer that the them is concentrated in the metaphysical area of the long boose credition the freedom of the long boose credition to the configuration to those areas in those areas in those areas in those areas in the service of the long boose credition in those areas.

In discouring the operative treatment of scute netsomvelitis Frasey states that he is conservative He dyocates the Starr technique though in form even less extensive than that advised by Starr He is disappointed with the gutter operation and is opposed to all of the more radical procedures with wide débridement or subpersortes i resection I the bone involved by scute osteomyclitis be makes numerous if in drill boles up t the healthy bone area, using a freshly sterilized drill for each bole to evoid extending the infection. The wound in the personteum and soft timue is left entirely open and lightly packed with sterric games souked in a solution of House parafile, acriffarine, and potsessom extrate The limb is then immobilized in pleater for two weeks. At the end of that time a dressag is done under anaesthesis, the wound repacked, and plaster applied for from lour to six weeks. On removal of the plaster the wound is re-examined, any acquestra formed are removed, and an itempt it partial closure is made

In fifty-six cases treated by France in the last twive years there were thirteen deaths, mortality of 33 per cent. In the fatal cases there had been a progressive exploiently which altimately changed to D<sub>2</sub> mink with excoolary abscesses in the voluntary smooths, mbentaneous tasters, heart, longs, and brish. Respect Convenient M.

Cambon, M. Scienaing Ortsomyelitis (Ostsominitis enterosants). Itsi y trak. Sec de curso de Bussas Aurer 1934, 8 any

The author reports a tumor involving the upper half of the left this of a boy fourteen years old Roentgesograms disclosed scheming famform lesion solution the corter. Belows the patient consalted Gambos he had been given intentive autiphillife treatment in spit of the abanean of serological and other chalcal evidence of spitule. The treatment had apparter results Gambos removed the area of actoress strafeally. The operation was followed by abnost immediate robel, and it entymonths later the patient was powernity cared, in Gambos opinion, this was a case of the

sciences outcompitals described by Garri, The disease smally octan in the last years of childhood. It is more frequent in bory than m girk and effects the bory displaying, especially that of the tibsa. There may be multiple lesions. The area of tibsa. There may be multiple lesions. The area of tibsa. There may be multiple lesions. The area of tibsa provident was a superior of the most of the control of the said man which for these and narrow. The pocilary cast, it, us more case to obstructing it completely to the complete of the control of the completely to the complete of the control of the completely to the control of the control of the completely to the control of the control of

tary cutsul, in some cases obstructing it completely. The coset of the condition may be insidenous exacts with local pain and elevation of the temperature. The pain is usually aggressated at night. As rule there is no precisible tumefaction and at those

a slight orderns of the soft parts.

The rectigenogram shows widening and an increase in the density of the duplying. The ordine of the knows is smooth and regular. The medallary

cand may be narrowed or obstructed. The proposed is absentian The straptoms may subside spontaneously even though normal loss structure may not be obtained. The most natification treatment is surgical. The operation may consist in the formation of multiple force through the leasan limit the medulia or resection of the affected area of hone. W. H. Marroun, M.D.

Bernardini, R. Rosetges Emmination of Bredie's Chronic Bone Abscess (L'indegne radiolopes selle étaine dags assessi cresies delle teas—Brote) Clus des 2012 1977

In 324 Broche found, after appointing leg, that the operation was innecessary as the condition was merely butta abscess Thereafter to prevent another such error be spent twenty years in a study of bone abortus and wrote a detailed description of chronic bone becaus M ay abscesses to which the term Brothe chronic bone abscess has been apphied do not belong to that classification. Brods described only abscesses which are chrome from the beginning and caused by pus coeti of tiemsated virulence, whereas many of the abscraces described as Broche's abscess in the literature ere abscesses due to scute osteomychtle which had become chronic in the later course of that disease. Brodie stated that the abscesses he described were located chiefly in the metaphyses of the long bones and carried intense intermettent pam a la exacerbations ! night

The author reports six abscesses which he thinks were of the Brodie type although they were not all located in the metaphyses. He supplements the case histories with roentgenograms. He believes that the designation "Brodie's abscess" should include all chronic hone abscesses with a slow course which are caused by hacteria of attenuated virulence, whether they are located in the metaphysis or epiphysis or occur beneath the periosteum. He states that these abscesses never affect the marrow for if the process reaches the marrow an acute osteomy chitis develops.

Bonola, A The Clinical, Roentgenological, and Histological Picture of Dyschondroplasia (Il quadro clinicae, radiografico ed istologico della discondroplasia) Chir d organi di movimento, 1934, 19 101

In 1809 Ollier described as "dyschondroplasia" a pathological entity characterized by irregularity of development, evolution, and distribution of cartilage in bone. The disease is associated with an abnormal and atypical proliferation of cartilage, both intramedullary and subperiosteal. It occurs most frequently near the epiphyses of the long hones and is usually unilateral. The strictly unilateral type is now referred to as the "Ollier type". Only thirty-three cases of the Ollier type have been recorded.

The pathogenesis of dyschondroplasia is not known Among the many factors to which the disease has been attributed are disturbances of the developing cartilage in utero, dysfunction of the endocrine glands, particularly the thyroid and sex glands, disturbances of the sympathetic and central nervous system, and disturbances of the sympathetic nerve supply to the nutrient artery of the bone

The author reports six cases in detail. The patients were males ranging in age from one to fifteen years. There was no evidence of a hereditary factor, syphilis, tuberculosis, or a change in the sympathetic or central nervous system. One patient was an epileptic. All of the patients were normally nourished and developed in infancy. Dental dystrophy and blue scleræ were common. One patient presented facial asymmetry with the less developed parts on the side of the dyschondroplasia.

The development of the clinical picture may be divided into three stages the initial, the evolutionary, and three gressive. In the initial stage the extremity gradually becomes noticeably shorter. In the lower extremity the shortening becomes clinically evident between the third month and the fourth year, and in the upper extremity between the third and ninth years Often there is no enlargement of the metaphyses and no disturbance of motility Subjective symptoms are absent In this stage X-ray examination is essential for the diagnosis as without it the condition is usually mistaken for rickets. The lesions are most marked and most frequent in the more rapidly growing metaphyses, i.e., the distal at the elbow and the proximal at the knee. In the upper extremity they are often found at the radio-ulnar metaphyses and as a rule only one of the two hones

During the evolutionary stage of the condition the metaphyseal lesion extends and the deformity becomes increased The difference in growth results in a difference in length Simultaneously, the mass at the metaphysis increases in size Both changes are progressive

During the period of involution there is complete arrest of the growth of the extremity. The metaphyseal tumefaction decreases in size as it ossifies,

hut the deformity and shortening persist

Complications, which are not infrequent, include pathological fractures, which often follow an insignificant trauma and heal slowly, and the development of associated enchondromata, especially in the bones of the hand

Roentgen examination should include the entire skeletal system. As a rule all the metaphyses and epiphyses of one side are involved from the beginning In about 50 per cent of the cases the condition is unilateral. In the bilateral cases one side is involved much more than the other. The changes occur most frequently in the metaphyses of the long bones and in cortical bone. In the initial period there are small oval transparent areas surrounded by more compact bone. The cartilaginous bodies are distributed according to the trahecular architecture and the distribution of the blood vessels in the metaphysis. In rare instances the marginal lesions are not bounded by cortical hone and have the appearance of excavations in the bone Gradually, in the period of evolution, confluence of the individual lesions occurs with an increase in the size of the cartilage often associated with complete disappearance of the trabecular markings. The involutionary changes include calcification in the cartilaginous masses and an intense periosteal osteogenesis which tends to delimit, circumscribe. and replace the newly formed cartilage

The author discusses the histological changes on the basis of hiopsy specimens studied during the different stages of the disease. The process consists essentially of a slow proliferation of cartilage with destruction of bone and the later occurrence of calcification and degenerative changes in the cartilage. The healed stage is reached hetween the ages of twelve and sixteen years, at which time there is complete arrest of growth in the extremity.

The treatment is not well developed No medical cure is known Corrective shoes may he used early After healing and arrest of growth various corrective operations may be indicated Operations to arrest the growth of the normal extremity may he considered early

To explain the new cartilage growth the author suggests that the cartilage in the epiphyscal region may lose the power to become hone and as the result its growth becomes uncontrolled. The occurrence of the condition during puherty suggests that enchondral ossification may he hindered by an endocrine disturbance.

A Louis Rosi, M D

Maure, M. Artiritis in Hamophilie. A Contribution on in Pathogenesis, Clinical Aspects, and Treatment (Le armit coofbacks. Contribute allo ladio patagesetico, Clinica feel dichir + 94. 15 171.

The author reviews briefly the pethogenesis and choical picture of harmophilia. He states that harmarthrods, one of the severe complications of this disease, may develop after the alignment transme or even apontaneously. It may occur in any joint, but is most common in the knee. Of thirteen crees of hemophilis observed by the author three had articular manifestations. Mauro reports a case of typical hemophilis with severe changes in the soft tiesues of the foot in which he operated with a good result. In discussing the surgical treatment of the discuse he emphasizes the value of transferlos and injections of blood serum supplemented by followills. pitultary extract, hypotonic salt solution, and caldum Econos T Lenor, M D

Milch, H: Se-Called "Frimary" Tuberculosis of Muscla, An J. M. Se. 134, 25 4

The case reported by the subor was that of a somma breaty-sight years old show yas admitted to the hospital with a swelling beined the left knee The patient had been under observation for namy years because of Pett a disease with collapse of the lower thorack evertebre. About ten years ago also developed symptoms in the right knee and a plaster of Petty bandies was appelled the resulting sillness of Petty bandies was appelled the resulting sillness petty and the patient of the left knee begin righten as part of the left knee begin righten as parent cans about one year before the committed the author.

Enumiration of the left kines revealed, below the model conclupe of the pills, a terme elliptical semielastic reveiling to em long from which no fluid was remeated on anjuration. When excled, the meas was from 4 to localized to the longs bend of the gastromenths marks. No connection between the same point could be discovered. The operation was allowed by unserseithed recovery.

Pathological study of the encuent mais duclosed the preas and microscopic picture of the truncations (III in a review of the filterature up 1 ops Hands (Good the reports of fifty five cases of atherenalists of meedes in which the condition did not occur by direct certenous. In most of the curse muscles of the extremities were lawdred. These included the extremelies were lawdred. These included the quadroness, patients, patients from langua, becape, trongs, decors and extrasors of the fingers, and abduston politics. Among the muscles interquestly broodware the sternomastoid, pectorola, recrus abdominiar and brancher muscles. Remove # Recrus M D.

Bravo y Diez-Cathede, J. Maincine of the Nuvicular Bone of the Wrist (Maincine del horso mealeides del carpo). Arch. de med. cirug y arperial 2014, 8 aut.

The author reports three cases of malacia of the navicular bone of the wrist, supplementing the histories with rosniganograms. It states that malkids of the write affects chiefly the inners and narriefland bones and the former much some trequestly than the latter. It generally develops the healthy men and is some common in the right than in the left wrist. The subjects are generally between twenty and thirty years of any and rarry younger than seventeen. The majority are manual sectors. It about to per cent of cases there is a bistory of trustme. The beston is often caused by filling with the hand in criterions. It seems cause it is caused by frequently repeated slight traumats. Occasionally it begins without known cause.

The first symptom is pain as movement of the Joint and on pressure. Pala over the anatomical sunff-box is characteristic. Sometimes percussion of the first and second metacarpals is painful. Lateral pressure is paintess. The movements of the joint gradually become Hinfted There is allekt suclibar over the bone due to reactive orders around the bone. In the beginning the rocatgenogram about normal structure. In some cases time fracture line can be seen. Frequently thus is apparent only in the radio-elnar projection. After some months gross changes appear in the structure of the bone. There is a diffuse enlargement of the bone which becomes evident only when the involved bone is compared with the hone of the normal wrist. There are alternating clear and opaque somes. Finally a sequestrum may be formed. After while all or a ert of the bone breaks down Later new bone is formed, the clear areas disappear, and the bone takes on normal structure though it is smaller.

taxes on Borrail stricture incorp it a situate the conditions meeting data and care and conditions meeting data and care and care acceptance to boos is much extrapted for histological estamatories. Recently it has been extrapted in certails cases to prevent arthrifts deformance this conditions are an extrapted in certails cases to prevent arthrifts deformance the conditions of the condition of

bone.

The a ther discusses the various theories with regard t the cause of the disease. None of these has been definitely proved. The fractures may be exceeding to the disease rather than the cause of t

Rossigenograms of the neurolitz hose are best taken to the decopalines projection with maximum lateral fermon of the hand toward the shar ade, the thombin slight adduction, and theocatural my focused on the newtonitz hose. This possition provents agree position of other hoses which, in the usual projection position of the hoses which, in the usual projection has been also been all story to examined at the state those side about the way to examined at the state those.

In some cases treatment by immedituration and rest for from air to eight a select is enficient, but in order to prevent complication by arthritis deformant exhipation of the bone is generalized performed. One of the uttlory's cases was treated someasidily by perforation of the bone. This procedure gives ent to the efficient within the bone opens up routs for the penetration of newly formed vessels which is the penetration of newly formed vessels which is necessary for regeneration of the bone, and places the periosteum in contact with the bone marror

npetti, M. Acute Osteomyelitis of the Ribs Caused by Ordinary Pus Cocci (Ulteriore con tributo allo studio dell'osteomielite acuta delle coste Zampetti, M da comuni piogeni) Clin clir, 1934, 10 727

The author reports 10 cases of acute osteomy elitis of the ribs which he treated in the last ten years and summarizes briefly in tabular form 92 cases which he collected from the literature He was able to find only about 100 cases in the literature He attributes the paucity of reports of the condition to the fact that the diagnosis is very difficult and is generally not made until operation is performed. He believes it possible that many mild cases are not diagnosed at all, and that many surgeons do not report their cases, an, and that many surgeons do not report their cases, particularly when the original diagnosis was errone.

Roentgen examination does not give characteristic ous and the operation was simple findings It is always difficult and often impossible to demonstrate that a thoracic or lumbar abscess originates from osteomyelitis of the ribs Chemical onginates from osteomyenus of the ros Chemical and biological methods are of little aid, in the The abscesses are usually caused by the staphylococcus plyogenes aureus

the auscesses are usuany caused by the frequently in children and in the seventh rib

A sequestrum was formed in 26 of the 92 cases which the author collected from the literature and in

4 of his own to cases

The prognosts is good to seem of the mortality is about to per cent and always due to sepsis or py ma could be reduced if the diagnosis could be made early

Variations of the Skeleton of the macner, r variations of the skeleton of the Foot as a Basis of Foot Disorders (Vanetacten) before sepsis begins des Fussskelets als Grundlage von Fussbeschwerden) Uhrmacher, F Zischr f orthop Chir, 1934, 61 180

In cases in which, in spite of the best inserts and careful treatment for weak foot or flat foot there were still disturbances of gait and typical pains localized to the medial side of the tarsal navicular bone roentgenography revealed an enlargement of the navicular tuberosity In the cases of children and adolescents this was demonstrated also by palpation The tuberosity was bent into a horn shape and lay posteriorly around the talus Just like a true os posterioriy arounu the taius just like a true os tibiale externum, the horn shaped navicular bone lifted the tendon of the tibialis posticus from its normal bed and forced it into an almost straight upward course Among 200 cases of foot trouble upward course Among 200 cases of 100t trouble due to various infections and bone changes which oue to various infections and some changes which were admitted to the author's clinic in 1933 there were admitted to the author's chinc in 1933 there were 32 cases of unilateral or bilateral os tibiale externum of varying size, 2 cases of os peroneum, and

The author believes the frequency of os tibiale I case of calcaneus secundarius externum to be 16 per cent Whereas formerly the externum to be to per cent whereas formerly the treatment was usually conservative, today, es

pecially in the cases of children and adolescents, the restoration of physiological conditions is accomplished by operative means Most of the patients pushed by operative means most of the patients are in the second and fourth decades of life. In adolescents, growing pains are frequent According to recent investigations, the os tibiale externum deto recent investigations, the os tibilitie externum develops not only gradually by growing out of the tendon of the tibialis posticus to form an independent accessory bone, but develops also upon a chondroid or fibrocartilaginous as well as a hyaline cartilaginous or norocartuagmous as wen as a nyanne cartuagmous base in this tendon. This site becomes ossified as the result of the penetration of blood vessels and the formation, in the center, of cortical bone which replaces the peripheral fibrous bone There is never any joint between the navicular bone and the os tibiale externum During the first decade of life the union consists of the tendon of the tibialis posticus union consists of the tendon of the clutaris posticus and later of chondroid or fibrocartilaginous of connective tissue or fusion of the 2 bones

Some orthopedists, among them Latten, have regarded the connecting bridge between the navicular bone and the os tibiale externum as the cause of the symptoms and accordingly have interpreted the pains as growing, dragging, or shearing pains. In pains as growing, uragging, or shearing pains and contrast to Francillon who concluded that the pains contrast to Francillon who concluded that the pains contrast to Francillon who concluded that the pains contrast to the first the pains and the first the pains and the first the pains and the first the first the pains and the pains are th contrast to Franchion who concluded that the pains develop in the "joint" between the navicular bone develop in the joint between the navicular bone and the os tibiale externum as the result of the weak and the os timale externain as the result of the weak foot, the author believes that painful metamorphic proliferative processes of the islands of cartilage promerative processes of the islands of Cartinge occur in the region of the joint with increased growth of the organism In the cases reviewed The tendon of the tibialis posticus, which was usually lifted from arthritic changes were never found its bed, was displaced upward. The sustentaculum projected prominently under the medial horn of the navicular bone as a small protuberance distal portion of the tendon, there were dragging pains which in some cases were associated with a locally circumscribed tendovagnitis Because of the swelling and reddening, an incorrect diagnosis of infected foot was sometimes made. As a result of the increasing torsion of the calcaneus, the talus slips under the tendon downward and inward and painful

For relief, the author recommends extirpation of the os tibiale externum or chiselling off of the horn flat-foot develops according to the operative method of Schede An arch shaped skin incision is made over the lower border of the navicular bone and another skin incision along the tendon of the tibialis posticus The tendon sheath is then opened and the aponeurosis of the posticus separated from the os tibiale externum with a thin lamella of bone. The superfluous bony parts of the latter and those of the horn are chiselled The tendon sheath of the flexor hallucis is opened for a distance and the tibialis posticus is reintroduced so that it again runs under the sustentactulum tall. As a moult of the plantage density of ulum tali As a result of the plantar displacement of the aponeurosis, the tibialis posticus acquires the

On completion of the operation the foot is placed in a plaster cast in slight adduction and supination proper tension

Weight-bearing is allowed after from four to six weeks. In some cases high insert must be orn for six months. The after treatment is the same as for contracted flat foot,

The operation is usually done in the second or third decade of life. In the cases f small children and occase of me. It meally sufficient, but in those of older patients an individually anitable fract must be

wors and, in addition, treatment of the foot is The site of the disturbance is shown by reent genograms and a dra ing

(H EWILL) LOUIS NEEDEL IN D

## SURGERY OF THE BOXES, JOINTS, MUSCLES, TENDONS, ETC.

Milch H., and Raisman, V Arthroton Knee Joint, Am Jary 934, oc 337 Arthrotomy of the

Of 50 cases in which arthrotomy of the lones Joint was done, postoperative infection occurred in 3 (5 per cent) In the cases in which the Lane 3 to per tem) an use thereof was used, the incidence of postoperative inference was 33 per cent, and in those in which ordinary surgical procautions were followed it was 4 per cent With regard t the relation of the experience of the sur geon to the incidence of postoperative infection it was found that the frequency of infection varied indirectly with the surgions experience, regardiers of the technique employed. The authors conclude that reliance on the Lane technique is illesory and

adherence to its ceremonish esperanous The reviewed cases show also that the deplicate akin preparations are unnecessary the incidence of postoperative infection after the angle perparations being 3 6 per cent whereas after the double preparations it was 7.7 per cent. However the duration of the operation accused to have some relation to the frequency of postoperative infection. When the operation tasted less than forty minutes the meldence of infection was 3.7 per cent, whereas when the operation lasted over forty minutes it was o per cent Infection was more frequent in cases in which kongitudinal facesion was used than in those in which a transverse or spirit patella incusion was employed. The more extensive operations such as synovectomy and repeat of the crucual braments were, of course, followed by infection more fre-

quently than the sample procedures The authors conclude that the fear of opening the knee joint which is based on the poor results of operations performed many years ago as no longer WILLIAM ARTRUS CLASE, 11 D

# FRACTURES AND DISLOCATIONS

Mirray C. R. The Healing of Fractures Its Infinence on the Choice of M thods of Treat ment. Arch Surg 934, 29 440

ther discusses the modern conception of fracture bearing in its relation t the clinical care of

fractures. The following problems, of academic statistics. The total property of scattering factorist, are covered in the bibliography (1) the existence or non-existence of specific bone-forming cells or catcoblests (2) the occurrence or near occurrence of metaphasis of connective these cells into ostrobiats non demand (3) what connective these cells, if any are capable of such metaplasis (4) whether cell of any kind has an active specific

part in the process (6) the cristence of a specific pre part in the parties of matrix (1) the presence of beenes of ensyme activity in the mechanism of calcium deposition and (8) the source of any

In the body of the article Murray decrees ( ) observations sufficiently well supported to be (3) the influence of these observations on the treat

The observations cited are ( ) the nature of the healing process, (s) variations in the character and amount of healing and the local nature of the factors involved local pathological changes, granulation tissue growth, the local source of calcium, and the h) drogen lon concentration of the these field and individual as whole

(3) the lack of influence of factors involving the The author gives his opinions as to how methods of treatment can fleet the various factors cited and

BARRIER B. STIMON, M.D.

Psyton, W. T. Copenhauer, W. and Arsy L. A Quantitative Study of the Rate of Healing in Bonn. II. The Normal Rate of Healing. And 3mg 934, 29 465

The authors report experiments which they carried out on rabbits to establish the normal rate of healing definitely in order that they might be able to extend mate the amount of variation produced by factors supposed to influence bone healing. They propose to check their results by another series of experiments in which greater number of factors all be

The experimental method used has been described previously In determining the return of strength in healing bone, the tensile strength, resistance to formon, and resistance t bending ere measured The fractures ere produced in the nine of one leg and the nins of the opposits leg was used as con-

The results with regard to each of the factors and the eight of the bone are carefully analyzed and

It was found that, as regards tennis strength, healing was complete by approximately thirty days after the fracture, but than the limits of the er perument the broken bone never completely regained tensile strength equal to that of the control bone of the opposite kg. The resistance to torsion and bending as completely regained by approximatel axty days after the fracture

BURRARA B STEERS, M D

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

Octioner A., and Mahorner H.: The Comparative haise of Intrarenous Sciencing Solutions.

The investigation reported in this article was continuation of that reported by Ochaner and Ger side in 93 Ochsner and Mahorner and bursoe in 93 Certainer and attenues temperate un-soloning acteroding agents their own sodium morrhusts in 5 and o per cent solution 5. J per cent solutions of socium synocardate 5 3 her cent astations of sodium hydrocastrate 3 and a J per cent solution of sodium myonecarpaic, and a per cent solution of sodium morthust (Scarle) The technique used was the same 3 that simple ed Les terrinque users was the same I that employ en in the investigations by Ochsoer ad Garade which consisted of the intravenous injection of the science mg gent and microscopic study of sections of the as seen issued from one helt boar to cight weeks

after the injection

The changes occurring in the intima following the complete destruction of the inition or less marked of either the complete destruction of the inition or less marked of either the complete destruction of the inition or less marked of either the complete destruction of the inition or less marked of either the complete of the inition of the chapter such as pythous, recoolization, and exthe visit and the state of the ay instance in which incidence of thrombout encountains the aignest incidence of three 17 4 per ceasy manufacture of value of solution of sociom morrhants (Scarle) was inchit sauton to manufacture to the per cent sodam factod Of the vent treated with 5 per cent sodam or factorial and the solution of the solutio proceeding, 75 per cent above a core encoded a grocerotate, 75 per cent above a cense encoded a christian but thrombosis was present in only 50 per cent. The incidence of thrombosis following the per crut. Ane measures or amounted was as follows 5 per cent and or the values of heavy alcohol (Search ) at central about (Search ) 7 4 per cent 5 per cent sodium synocardate 50 per cent per cent 3 per cent account gymnatume: 30 per cent 5 per cent sediem griccardate 43 per cent 5 per cent sodiem griccardate 43 per cent 5 per cent sodiem griccardate 44 per cent 5 per cent sodiem griccardate 45 per cent sodiem griccardate cent somem grincearence 4s per cent 5 per cent softim morrhusta (authors own) 33 per cent and 3 per cent and 3 per mortuous (autous own), 33 per tent and 3 per cent sodium hydrocarpets 33 per cent. The others believe that possibly the reason for the discrepancy pet can the results obtained following the infection of their own sections mortinate and the results obor men own security measurement on two secure on morrheats as that the latter contains benzyl alcohol morrimate a time the nature contains occupy account and the benzyl alcohol may enhance the actromag property of acdium morrhuate. When the results of the investigation are compared with those of the investigation carried out by Ochiner and Garade it as seen that the Commercially prepared 5 per cent section storchaste, 5 per cent section gynocyclete, and 3 bet cent sodium Sanocadara sasa all mote and 3 bet cent sodium Sanotamera sanotame efficacions than 40 per cent sectium selectists hich was the most effications of the drup studied previously Definite evidence of the ingress of abreblasts int the periphery of the thrombus was ob-

served after forty-eight hours, and organization with screw auer many engagements, som organization was reconstruction seemed to be complete after from its reginalization seems to be complete after from an to fourteen days. The findings in the internal chair. to nouriern days. And manage on the microscopies destruction to so sammer yarsen tron tempere negativation to see change at all (Edema was frequently moted in the

arms. In conclusion the authors state that of the 29 soin an commence are numers made that or the space tons investigated—so included in the original report of Ochsort and Garaide and a included in this report or commer and custome and a monument in two repor-those found to be the most efficacious were 5 per cent sodiam morrheate perpered in bennyl alco Coarle) and 5 per cent acdium synociritate. None of the investigated solutions had any effect on the or the investigation parameter and throughout being dependent upon destruction of the endothelium of

Piccagli, G Transpatic Thrombouts of the Right cagin, G. Transment introduces as the sages.
Animary lets (Trophed do sievo della sages
accelluro dentra) Cip a separati mercanata con-

A man (wenty-one years of age obtained a job in A man twenty-new years or age woman in the arms in producing great force on a lever About ten days after beganing this work he noticed that his right arm was inger than the left became of a driven swelling of the cutter arm and the corresponding swemper He then remembered that her days previously be had suffered an openual strain of the apper arm. The hand and a large part of the areopper are the hand and a sarpe part or case and a rest infered common The vertes of the arm, the absoluter and part of the pper right half of the ancount and part is the pipe right out to though were discolated. Subjectively the size felt

On physical examination the rm was found in creased in size. The right shoulder had a more conver outline than the left. The right intractartions and superclayicaler force were confirmed The and sopeners come times were to be and the left. The right hand and foreign were intensely cyanotic. The reins of the entire extremety shoulder and right veins or one manuscript and there are no new veins or one manuscript and there are no new veins or one manuscript and the contract of the cont crosse of heat in the arm. The swollen tiesce did not pit on pressure. Deep palpation in the upper part of the arm revealed arm cord which was somewhat tender to pressure and could be followed well into the and a The artillary lymph nodes were not enlarged The function of the arm was normal and pathless. but somewhat limited by the sensation of heavisem There was no evidence of local traums. Under

treatment by evaluate or next traums. Uncer treatment by ear, cure resulted in forty five da i discussing the etoology of traumatic thrombons of the arm the author calls itention to the local anatomy of the anila and especially the relations of the artifact vers and the tributaries in the region of the costocoracoid membrane. He concludes that in

the case reported a sudden forceful muscular contraction may have caused a tearing or the wall of this vessel or the vasa vasorum with resulting injury o the intima

# BLOOD, TRANSFUSION

Quantitative Histological Studies of Jormal and Pathological Bone Var-Nordenson, X G row (Histologische quantitative Studien des nomalen und pathologischen Knochenmarks) H grec,

Intravital methods of examination were introduced into hæmatological technique by Ghedini, Seyfarth, and Arinkin. Arinkin's method is probably the simplest and has the advantage that the puncture can be made several times. Following the induction of anæsthesia and with precautions for asepsis, Arinkin punctured the sternum with a thick needle at about the level of the second rib Smears were made from the material obtained and stained in

Nordenson made about 170 punctures by Armthe usual manner kin's method. He reports first his findings in the cases of persons with a normal peripheral blood picture Like Schilling, he found in several subjects a relative ly inphocy tosis in the absence of pathological changes in the bone marrow Also like Schilling, he found in normal bone marrov an eosinophiliz of per cent without a considerable shift. He discusses the reticular cells at some length He believe that, when fully developed, these cells are identical with the Ferrata cells or hæmohistioblasts, and trat without doubt the cells of the myeloid system onguizte

In summarizing his findings in normal cases, Nofrom the Ferratz cells denson shows by means of curves that the m eloblasts are never increased and vary between 0 25 and 5 5 per cent, the my elocytes and p-omyelocytes very between 2 and 21 75 per cent, and the star to ms and voung granulocytes vary between 3 and 27 per cent He states that in normal active bone marrow the sum of the staff and young forms is greater than the sum of the my clocy tes and promy clocy tes. The my elocarrocvies ' are ve' fev, there never being more than I to 100 while cells The number of reticular cells per 400 white cells averages 17 that of normoblasts ranges from none to that or basophilic no moblasts is 6, and that of no moblasts is

The author next reports his hindings in pathological

In secondary animia with and without a leacocytosis and with a leucopænia the number o m eloblasts in the bone marrow is about the same as in cases in which the blood picture is no mal. In spice of a great change in the le-cocyte count in the perpheral blood (up to 17,600) the number o my eloblasts remains constant. The sum of the pronveloc tes and my elocytes varies between 11 75 and 11 25 per cent Wyeloblasts are no. found. Proposition blasts occur in the same numbers as under no-mal

conditions The basophilic commodiasts are considerably increased, numbering 35 per 400 le.co. cites. The normoblasts are not increased. Therefore, according to these firstigs in the marro- there is an increase in the activity of the erviciopo euc system in secondary anamia

In most cases of le-cocytosis and lenconemia "itrout secondary anamia the myelo d system of the bone marrow reacts with a marked percentage increase in the my electes and promyel series

In pernicious animina there is an increase in the myeloblasts from 5 up to 12 75 per cent. The sum of the myelocytes and promyelocytes tres be read 20 and -6 25 per cent. On the other hand the sim of the young and star forms is considerab's reduced varying between c 25 and 10 5 per cent.
Megaharyocytes are absent. The reticular cens are increased to \$7, the megaloblasts are rage about 67, and the normoblasts are reduced to about 1 per 100 white cells. The cells of the myelo disvs emission as tinct evidence of degeneration the contain plane trict evidence of Cobenciation the committee of the latter are seen also in the er thropo etic sigtem. Improvement ances liver therapy is endenced in the bone marror picture The degenerative changes rap div desprear and the cells regain their normal appearance. The voices and star forms increase and soon regain their nor mai number

In agranulocytosis the sternal marro- is practically devo d of granuloc tes On the other fand. in grandopænia, the marror is extraordinarile rec in cells and shore considerable acturer with a relative increase in the promission tes and in sigcites The engthropo ests is of the type seen in secondar anama

In cases of lymphogranulomatosis treated or Xray irradiation the marrow is poor in cells but not

In lymphatic leukemia the marron a poor in ceils and has the appearance of "Flersch asser myelo d and er thropo euc systems are practical. destro ed, the conduct might be described as a 'myelo-erythro-pathiss." The lymphor tes are fer and very oung Lymphoolesis win a Light ofte protoplasm minori gram es are numerous reticular cells are numerous but degenera ed. GENER, HOUDLAND

# Mahiser B The Pathologico-Anatomical Changes in the Organs Following Hamoletic Shock Ceper er barp, omemair, cureren fe aeugaungen der Organe mach haeme tachem Shoce/ Vehicle i Forger f Blaceron , Lem

The author reports the findings at autoper in four mass of death occurring after transferent. In two cases an infiliration of the arteria, mall b. blood p gment collections o sanguares and in the serous Caviles o the body and charcate-on ored address phenomena monatre of hamoles mere found The ep theham of the sames tubule samed distroping processes, and necross in the

dominant

center of the liver loboles. In the two other cases no evidence of harmolysis was revealed by either macroscopic or microscopic examination.

The degenerative phenomena in the kidney inboles was apparently related to protein interfaction due t denturing of the plasma shumin. The capillaries of the internal orquas, particularly those of the liver were overfilled by large numbers of leucovites.

For proper semination of the pathologico-anatom leaf flortings in these disloid cases, fifty-three animals (loop, cats, ad rabbits) were examined after death from artificially indexed themost the shock. The majority aboved as engargement of the venous system of the bloominal organs indicating disturbances in the lesser circulatory system Microscopic examination of the capillaries of the

I gar received meases of albumin, some of which ere composed of dots and others of bood pigment. However, these foocealists disappeared very spill, from the blood stream and became boarded by the freedows. When death was delayed for a certain length of time desperantion of the spillednam of the ladger trabules and necross in the criterio of the ladger trabules and necross in the criterio of the trabules was observed as in the reducal cases. However, the desperance of the criterio of the trabules of the mechanical construction of the does wither to the attention and travels of the does wither to the attention condition of the sequal. the decomposition products of hemoglobin. In the personnel experiments regenerative processes in the epithetial cells and also in the connectivities, were observed. The reaction of the reclaim-code helial system was evidenced especially in the placecytizing action of the Kupfler cells of the irves and the retreater cells of the popers and the irvest

nodes.

In the discussion of this report, Security (Mocow) said that the pathologica-matomical picture as case of death due to Injury from blood transferse show that the cause of death is not mechanistic obstruction of the kidney aby protein decomposition products but a far reaching herothenical kids in responsible for the directativitied processes in the laver. In it of his cases old cirrhotic changes in the liver were bound at autorous and to one case

death was due to an air embolus.

Elanskij (Leningrad) sald that the mechanical arphanation of hemotytic shock cannot be rejected entirely. In some of his cases the blood essets of

the parenchy mateux organs aboved a foccessition of blood cells segregating prisary aggivantation. Matilière (Lewingrad) sold that while the mechanical factor is of great importance in the pubble, it is of much less importance in other aimais and man. In the dog and in man, forcestation is retensible process bewere in juries are crusted by intuitions of otherwise, but at first the varicular changes are

(Koroto) BARRY A. SALINAY, M.D.

## SURGICAL TECHNIQUE

# OPERATIVE SURGERY AND TECHNIQUE, POSTOPERATIVE TREATMENT

Coller, F A, and Maddock, W G Water Balance In Surgical Conditions Internat Clin, 1934, 3 190

Water is available to the body from two sources, namely, fluid and solid food. The average adult drinks from 800 to 2,000 c cm of water daily water from food is derived not only from the fluid content of the latter, but also from its combustion Combustion results in the formation of water of oxidation. The water content of the routine daily solid diet is about 1,000 c.cm, and that of a soft diet about 500 c.cm In addition, from 200 to 400 gm of water of oxidation are available. When the calorific value of the diet is inadequate the body tissues are oxidized to the extent necessary to meet the metabolic requirements. Under oxidation the body tissues yield water and water of oxidation exactly as does ingested food. Thus in starvation the water content of body tissues utilized yields from 200 to 300 gm of water daily

Water is excreted in the urine and faces and by apprization through the skin and lungs. The waste material excreted through the kidneys amounts to from 15 to 50 gm daily. An individual with normal kidneys must pass not less than 500 c cm of urine daily to rid the body of this waste. In renal disease, in which the kidneys cannot concentrate normally, about 1,500 c cm of urine daily are required for this purpose. The average water loss in the faces varies from 50 to 150 c cm per day Vaporization accounts for a loss of from 1,000 to

1,550 gm of water daily

The authors first studied the problem of dehydration attendant on surgical operations in a series of eighteen cases. They found that the water loss due to vomiting was small except in one case. Blood loss in the operating room was generally much greater than estimated by the surgeon. The loss of water through perspiration in the operating room ranged from 40 to 706 gm. In the four-hour post-operative period, the insensible loss of water ranged from 126 to 828 gm.

The chief fact demonstrated by the study was that the period of operation and immediate post-operative recovery is one of dehydration. Under routine conditions the total fluid loss averaged 1,000 c.cm. A little more than 70 per cent of this volume was lost through the skin and lungs, and about 10 per cent was excreted as urine. Elimination of some of the covers in the operating room and on the ether bed reduced the insensible loss of water by one-half and consequently resulted in a greater output of urine.

The authors next studied the water balance dur ing the first days of the postoperative period. They found that in the simple uncomplicated surgical case there was a water loss through vaporization of from 1,000 to 1,500 c cm per day. In septic patients this insensible loss of water amounted to at least 2,000 c.cm per day and in patients with hyperthyroidism it approached 2,000 c cm per day. The authors call attention to the fact that there is no reduction in this insensible loss of fluid even when the general supply of water is low. Even when no water is available for kidney function, the water for this beat-dissipating mechanism will be obtained continuously from the body until no reserve is left and death occurs The kidneys do not take a share of the total supply of available water to make urine. but function with the water that is left over after all other routes of water excretion have had their

Accordingly, the best index of adequacy of the water supply is a urinary output satisfactory both in amount and specific gravity. The authors conclude that in the case of the sick surgical patient the minimal daily amount of urine indicative of a satisfactory supply of water is 1,500 c cm. In the cases of patients who are known to have normal kidney function they endeavor to maintain the specific gravity of the urine below 1 105 as an additional check on the adequacy of the intake. They emphasize that in addition to the loss of fluids through vaporization, a great loss may occur through excessive vomiting, diarrhoa, or copious drainage from an intestinal or biliary fistula

When it is impossible to maintain a satisfactory supply of available water by mouth, the intravenous route is particularly satisfactory in the case of the sick surgical patient. The choice of fluid depends on the substance needed. In combating or preventing simple dehydration the authors use a 5 per cent solution of glucose In cases with continued loss of gastro-intestinal secretions or with a copious inflammatory exudate such as occurs from burned surfaces, it is necessary to supply lost electrolytes as well as lost water In the authors' cases of this type the fluid employed is either normal saline or Ringer's solution, I liter at a time being alternated with 5 per cent glucose Determinations of the non-protem nitrogen, chloride, and carbon dioxide combining power of the blood are made at intervals to follow the return to normal levels

In conclusion the authors state that the use of a 50 per cent glucose solution is advocated only to relieve increased intracranial tension. There have been no complications traceable to the administration of from 200 to 500 c cm of fluid intravenously per hour. Caution should be observed in administration.

tering fluids intra enously t patients who have abox or are sho ing seems of cardiac decompensation

The article is followed by an extensive bibliog raphy
Astrawa 8 % Towners M D

Koch, S. L.: Burn Contractures of the Axilla.

The principles of treatment of born contractures of the sails set fort by Blist Brown, and Hamma are emphasized by Koch. It is desirable 1 promote bening of the original flaping as the shortest time and with minimal sear these formation. This is achieved best by repeated mobit dress | nad the application of Thireych grafts as soon as a bestitor year shall perface is obtained. Such treatment facultates later correction and in some cases is sufficient. The application of force 1 prevent contracture may be derimental a it retard besting, thereby is not giftened.

The samplest method of hislanding the desired solution in smallary contractor is the Z shaped incident. This is be stillared hen broad eb of healthy. Un extends from the arm t the side of the cheet. I requestly such the don like into two fold next the press of the stilla with a small area.

of normal skin between them. This is airay carefully preserved. Been se of soar thane it may be necessary t place the "Z stypically. Any remaining new surfaces are covered with split grafts.

When there is no web and the akin adjacent to the auilla is account. Sap with a broad pecials may be abilited taste the axidia. The remaining raw serieurs on the chest will or aran may be covered with spin grafts, but it is important that normal. In he placed t the site of the greatest tension. If a long day is used, both perfects to raise it in soo eye two stern

before shifting it.

When the born has lavolved thenes adjacent to

the antia, Koch does not use tabel graits from division. It perfers the spits grafts advocated by Bids and Brown. The new of the latter is the simplest method when the arm is field 1 the chest without rh formation or redundant tissue. A relaxing fucilion is made on the chear all signifity below the fathe satilit. As undermining proceeds, bolseties becomes possible and short shirt file. But prosen

ap to cover the axillary apex. The remaining raw surface being largely on the chest wall, persure over graft can be maintained seilably. The anthor reports on fewtiers cases treated as

The author reports on fourteen cases treated at described Those W Stavesore, J MD

# PHYSICOCHEMICAL, METHODS IN SURGERY

# ROP' TGFROLOGY

The Combination of Roemken Therapy and Most Heat Therapy In Lupus Here there is called a Bulson M Service Control of the form

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Collising time the de clopment of our present conception of commomsty from the Cork of Pillict and Coste in 18 18 and give a mer [the controversia] the series briefly the histology, chinesis characteristics and effect of meta trains of the tumor, dressing particularly the variability of the neo plasms the extreme frighty and high givener content of the round and polyhedral cells, and the large number of lymphocytes sometimes forming

Seventeen cree, trested by S ris Irridiation alone or combined with surgery are reported. Of the fallicles seen in the strom? eleven patients who were treated in the period be-

ti cen tu: and tota only to o the still abive two lattests trested for oration seminomic lines survived not ten and three sears respectively eral of the note indicate a respectively and de all In discus my the factors involved in cure of the condition the putt of is inclined to itenbute the come time to the deal the batient than to the effects of a seritt in it the cross of male the E to and sericite of the tumor, or the surgical a direction to him to New Monter M.B.

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Beaution of the center the role that according to role n re pons he tolumed diagnosis is des thed to law in the treatment of malignous is de-He refe & becally to the radiols of ignal character of certain turn to the the reports in detail three a cerum turn is the histolyceal petute of specimen excel for haper naide it proble to foretell the The red in the tongs. The reo by he in the cores of the toning colled concounts rith cells of the diam size of the lind characterized hierolygically by very structure of the tumor cells and especially the pre-nee of centiere I and focally recumulated so called uncrucytes. The latter are a characters the descourance form of tumor cells theli simetimes have a close morphological reemblance to enthrolla to but as a rule are small cells with a citima Is chaped by Fuotic unclene simi for to the cell known microcytes in lymphatic tie ne Hovever, the tumore in which they are found

The presence of the microes tes described, which is are not lemplin accomata interpreted is in Indication of spontaneous de generation of the neoplasm or a tendence tot and such degeneration must be regarded also as an in dication of marked radiosensibility

Molesworth, J. H. V-Rus Secrosts Med J. Inc.

Moles orth divides \ in necrosis into the acute type due to a single overdo e or a series of exposures the sum of which amounts to an overdose, and late

In reute necrosis there is a rapid progression through the ordinary stage of erythems to vesiculation fallor ed by the separation of a moist, adherent, and grayish green slough The process is accom printed by an acute and persetent burning pain which resists all local applications. If the dose has not been too great, islands of epithelioma may sur

wive and provide centers from which enithelium may grow to cover the denucled surface when the alongha finally separate. The length of time during which the elegration persists varies with the depth of the sloughing process and expectally with the area of the surface involved. Healing is alow. The resulting cicatrix is weak and covered with atrophic epithe hum Later telangioctaria appears, and still later facets of pigment and hyperkeratotic patches develop. S becquently warty projections may form and after a varying lateryal give rise to carelnome In severe cases the older may never beal and skin grafting may fall so that it may be necessary to excise the whole area deeply and cover it with a tube graft

Late necrosis may appear from a year to five years after the treatment. It may develon as result of an acute burn which has bested or the too frequent repetition of doses on the same area, per haps over period of years without the production of an erythema Late \ ray periods pever occurs on an area of apparently normal skin. It shaws supervenes on an area of chronic radiodermetities Its presumee is that of dry dark beown to black gangretoous patches which are shrunken below the main surface and look like stained rag akes. Many months may clapse before these separate and leave sicers a high require many months to best or will got beal without plastic surgery. The pain is notable, but not to be compared with the pain cassed by scute sloughing induced by recent try bern. The alceration rursly extends further than the depth of the skin. The extent of the surface involved in the abecation and the chronic radiodermatics our rounding the ulter are most unportant factors in the programs. If the area of plogration is small, the promosés is sood, whereas if the plant though shallow is in the center of a large area, the outlook is practically hopeless as regards healing

The eather observed necrous of skeletal times only in a case with an extensive area of chromic derimatitie over the thorax II states that too frequently reneated deep X-ray therapy for carcinoma. of the breast is believed to be the cause. In the case cited three successive senses of deep X-ray uradia tions were given, each of which provoked definite erythems. At least p t three years ago, eacht years after the treatment, the petient remained free

from recurrence, but the whole area aboved chemic X-ray decreatitle and in the region of the county areas a deep late sicer developed and percisted for months entil a portion of costal cartillage 1 in lone separated and was removed. The older then similar healed. The author believes that these effects are undoubtedly related to interference with notricing probably due to endarteritis and fibrosis and that they will be less frequent when measurement of the domare is improved and too prolonged and too fre quantity repeated treatments are no longer given A TAXON LABOUR IS D

## MISCELL AREOUS

Particulate. I traduction to the Dec of Ultra violet Light in Operative Surgary (Trainment des pératementes supportées. Introduction à l'errole des ultra violeis en churante mératnire). Res ett de la 3 mint Rem 934, 54 770

The a thor describes rather briefly Haylicek's method of freaduation a loop of intention and its mesentery with ultraviolet light in cases of gener ahand supportative paritoritis. H. reports cases of his own in which such irradiction was followed by an unpasselly smooth convalencescer. In this treatment th peritoscal exadate abould not be disturbed by suchration, sponging or irrigation. The abdomes is closed without dramage. Only local or silirocsoxide oxygen anasthesia abould be employed. The use of eiber readers the method unartislactory

In cases of preomeococcac peritonitis Harricola removes r cm of the pus by peritoreal pareture, irradiates it with altraviolet light, and then injects it inframmarulativ in repeated dones

Irradiation of the meantery the altraviolet bekt is serposed to prevent dilutation of the capitlaries in the splanchule area and thereby prevent the shock and circulatory collapse so often associated with peritonitis The braduation has been found t reduce postoperative discomfort and the incidence of post-operative embolum. The other cites Hevbrek's report of of cases of diffuse perstanuts which are operated upon and bradiated in the manner described in a period of three years with no deaths. The details of the hradiation are not given.

Max M Zevenson, M D

## MISCELLANEOUS

## CLINICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

Lascano, J. C., and Valenzuela, J. R. The Clinical Syndrome of Short Neck and a Very Rare Malformation of the Heart in a Newborn Infant (Sindrome clinico de cuello corto y muy rara mal formacion cardinca en un recien nacido). Bol. 500 de obst. y giuco. de Buenos. Aires, 1934, 13, 155

In the case reported the neck was unusually short, the head sitting deeply between the shoulders, which almost touched the ears. All movements of the neck were possible but limited Physical examination of the heart was negative. The child died of pneu monia at the age of three months Postmortem examination of the spine disclosed a third occipital condyle, fusion of the bodies of the third and fourth cervical vertebre, absence of the posterior arch of the atlas, flattening of the laminæ, and nearly complete absence of the intervertebral disks. On examination of the heart only one numele was found. This was of large size The left ventricle was larger than normal The right ventricle was relatively very small. The aorta and pulmonary artery were represented by a single vessel originating from both ventricles

WILLIAM R MEERER, M D

Odasso, A Sacrococcygeal Chordoma (Il cordoma sacro-coccigeo) Arch ital di chir, 1934, 37 505

The author reports a case of sacrococcygeal chordoma in a man sixty years of age. In January, 1931, the patient fell, striking the sacrum on the ground. In the autumn of that year he began to have lancinating pains in the sacrum lasting a few seconds and coming on several times during the night During the day he was free from pain About the first of August, 1932, he noticed a swelling in the sacral region Examination disclosed to the right of the midline of the sacrum a tumor the size of an orange which was covered with normal skin. The skin was not adherent to the tumor, but the tumor was adherent to the underlying bone. Roentgen examination did not show any erosion or softening of the bone No enlarged glands or metastases could be demonstrated Operation performed under spinal anæsthesia was followed by healing by first intention. Nine months later the patient returned with a local recurrence of the tumor

Histological examination showed the physaliphore cells described by Virchow as characteristic of chordoma These are large vacuolated cells containing mucin. There were also smaller polygonal or fusiform cells containing glycogen and fat. It is generally agreed that chordomata originate from aberrant rests of the notochord. These embryonic cells are capable of undergoing metaplasia into

various forms of cells. While histological examination does not show any marked signs of malignancy, these tumors should be classified clinically as malignant as they are very apt to recur after operation. The treatment should therefore be early and radical removal. The tumors are of a connective tissue rather than epithelial type. They generally develop in the fifth or sixth decade of life. In many cases there is a history of trauma

The article has an extensive bibliography
AUDREY GOSS MORGAN, M D

Weddell, A. G., and Gale, H. E. D. Changes in the Blood-Sugar Level Associated with Surgical Operations Bril J. Surg., 1934, 22 80

Ingested carbohy drates are absorbed from the intestine in the form of glucose and stored in the liver as glycogen. As required, glycogen is reconverted into glucose and passed into the blood stream to maintain the blood-sugar level at from So to 120 mgm per cent. The cycle is influenced by nervous-hormonic factors. The sympathetic-adrenalin mechanism promotes the change of glycogen into sugar, while the vagal insulin mechanism promotes the conversion of sugar into glycogen.

In a study of the blood-sugar levels in nine patients during various phases of major surgical procedures the authors found that half an hour before the operation there was no appreciable rise in the blood sugar, although it is well known that patients in a state of anxiety or apprehension have hypergly comia (sympathetic-adrenalin factor) They therefore conclude that their patients were not

unduly apprehensive

The induction of surgical an esthesia with nitrous oxide, oxygen, and other produced an increase in the blood sugar level averaging from 20 to 50 mgm per cent (sympathetic adrenalin factor) However, the duration of the anæsthesia did not determine the height of the maximum rise

Operations near the splanchnic area (solar plexus) caused a greater rise in the blood-sugar level than operations at a distance from that area. The duration of the operation was found to be relatively unimportant in determining the height of the rise in

the blood sugar curve

Patients who appeared comfortable and relatively free from pain (vagal insulin factor) after operation had lower blood sugar levels than those that were uncomfortable or in pain (sympathetic adrenalin

factor)

Rectal drips of glucose and saline solution had no specific effect on the blood-sugar level. On theoretical grounds this is correct because the rate of absorption from the rectum is quite slow (6 gm per hour). However, rectal drips of glucose may be of some

value as convenient means of feeding the patient after operation.

The thors are inclined to believe that per sistently high postoperative blood sogue level is t be expected when the patient is not doing well. A raws 5 Ti Torsory 31 D

#### DUCTLESS GLANDS

Fenator E. A Case of Extraporalizal Chorlomophibe-Borns in a Make with Posith America Plulitary Lobo Receion (Lebre en entraporatales Chorlomophibeliom bens Manne and positives Hypophysens wedritoppenraktion) F. Hybri Exple f.

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Fester reports care of extragential chorionspitheleona in make which purerulir had in origin in a retropertionest tersiona. When the testicies are examined in serial sections no macroscopic nor microscopic pubbological changes were found. The tumor and it mentatures behar of biologically his choroscopicheleonis in the fermition of the control of the control of the conpetition of the control of the control

I splt of the numerous metastases and the completely intact testicles, no gynecomastia as observed. Therefore the theories of Hestinch Fels, and Mathias that intact testicles do not hinder the derelopment of colostrum formation and that the quantitative formation of colostrum is dependent

upon the amoust of turnor thou, ore not supported. The theory of Fry m that conclusions regreting the testicular or extragential origin of a chornocepithe forms can be drawn from the localitation of the metast, see is not accepted by the notion of the metast, see is not accepted by the notion as in his case of debautely extragential chornoceptetheloma the locaril fixed entering the consideration of the respective chornoceptibeloma the locaril fixed entering the consequence of the con

HONEER | LOCAL M. M.D.

#### SURGICAL PATHOLOGY AND DIAGNOSIS

Cutter C. W. J. Errors of Sersical Disprosis.
A boad of the Records of the First Sergical
Division of the Romerelt Hospital Covering
Period of Three Years. (at J. U. Nr. 44,
17) 8

The uthor analyzed errors in surpical diagnous reade in period of three years. His purpose as i determine what errors are made most frequently why they are made and how they may best be oded.

tent oppendictits. Of \$50 cases in hich disposes noted of series pependictits in made the diagnosis wa incurrect in \$15 per cent). Of the latter the symptom error of o seed subjungitis in calibratic personals in perlus disease other this algungitis in § out choice, this in and miscrillaneous conditions. § In discussing the cases in which acut subjugits was disposed as acuts possibilitis, Cutler states that the differential disposits bet een these conditions is sometimes disbruit and because of the harards of acute appended in the patient must be given the proof of the doobt.

In most of the cases in hich the symptoms ore found by the pathologist to be due to chroate assessed of oute approximation to be approximated to pe with sent code but without cate inflammation. In several of them there had been previous stacks.

In the 4 cases of enteritis the removed approach was found pormal. Three of the patients with enteritis were children. Outler cells attention to the fact that the seriousness of appendicitis in children requires special caution, and that in cases in which the classical symptoms of sout appendicitis are including fulnificiating appendicitis are processed.

covered at operation
Of the patents with its phalitle diagnosed as cute
ppendictle, so ere children ith serous peritorius
and subgreed mocenterie stands

C ther states that in pneumonia, \ ray examination has greatly reduced the incidence of diagnostic error

Because of the Irropency of pel to conditions other than sulpragitis, such as hermatometris, i uring of the predicts of an orantian cyst and reprint of chocolat cyst of the orany to formate showald be operated upon for some predictible. Blood first being subjected it a regional or restal examination in the re-lived more of gravite choices with dust

noved as sent appendicate, a low position of the gall bladder as re-possible for the error

Chemis production Of Cares to bloke alongoods of throus approaching was mode the diagnosis of otherois approaching was mode the diagnosis are removes in § § per cent). In you the 5 cases with an neorest diagnosis then mylers even due to pelvic disease although the failure of spillar examination were reported assistant. Cutter asy that in the future the diagnosis must be based on more security palpation experience and to place the production and to abother mylers of the care relevent, throus challengation as an old parameter of the care the second of the care to the care of the care to the care of the care to the care of th

In the property of pages is employed. Supposed to break a smalle, the dispersal of the pages at the pages at

and psors abscess. One supposedly strangulated umbilical herming nas not strangulated, and an incarcerated inguinal hernia was mistaken for varicocele These mistakes emphasize the importance of climi nating the various conditions which may simulate hernia, and particularly of scrutinizing hernia which do not reduce To guard against negative undings at operation the patient should be made to demonstrate his herma before repair is undertaken cularged inguinal ring and pain in the groin are not entisfactory enteria of the necessity for repair

lette el electelis Of o cross in which a diag nosis of acute cholecistilis was made, it was incor rect in 7. In the latter, the condition was reute

inflanimation of a high lying appendix

Chouse elosecistis Of 101 cases in which a diagnosis of chronic cholect stitis was made, the diagnosts was incorrect in 13 (6 05 per cent). In 2 of the latter no lesions vere found. In another there was a marked gastro enteroptosis. In I case the condition vas an acute suppuritive choices stitis condition vas an acute suppuritive choice stitis running a quiet course In 2 cases, operation re realed a duodenal ulcer and in 1 case cach, chronic pancreatitis, chronic appendicitis, carcinoma of the gall bladder, pelvic peritonitis, and tuberculous retroperitone il lymph nodes impinging on the com mon duct. In 2 cases the symptoms were due to urm bands of adhesions running across the duode num The mistakes in this group of cases emphasize the importance of making a thorough \ ray cramination of the gastro intestinal tract when gall

Calculus in the common duct. Of 13 cases in which bladder disease is suspected a diagnosis of calculus in the common duct was made, it was incorrect in 3 (23 per cent) In 1 of the latter the condition was acute yellow atrophy run

ning a fairly prolonged course, and in 2, the symptoms were due to 2 stricture of the duct following ?

Duolenal alcer Of 64 cases in which a diagnosis of duoden il ulcer was made, it was wrong in S (12 5 per previous operation cent) In 1 of the cases with an erroneous diagnosis the stomach and duodenum were normal. In the 7 others the postoperative diagnosis was chronic ap pendicitis Cutter states that as patients presenting the symptoms of duodenal ulcer are now being thoroughly examined with the roentgen ray and then subjected to medical treatment over and over again unless obstruction occurs, fewer of them are being operated upon and fet er errors are being

Acute's perforated duo lenal ulcer Of 10 cases with a diagnosis of reutely perforated duodenal ulcer, the diagnosis was incorrect in 6 (31 5 per cent) The mide

dire consequences of leaving a perforated ulcer without operation perhaps accounts for the high percentage of error in this group. In 3 crees the condition proved to be acute cholect stitus with stone, in I case, a volvulus of the intestine vith gangrene in i case, a perforated carcinoma of the sigmoid, and in 1 Therefore cisc, ingina or coroniri occlusion operation was narranted in 5 of the cases in which the diagnosis 1 25 wrong The 7 ray is of great aid in the necessarily hurried diagnosis as a sub diaphragmatic grs bubble is practically pathogno

There were 20 errors of diagnosis in miscellaneous monic of perforation

The total number of crees operated upon was 2,340, the total number of diagnostic errors, 110, and the percentage of error in the total number of conditions cases 46

#### BIBLIOGRAPHY of CURRENT LITERATURE

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#### SURGERY OF THE HEAD AND NECK

#### Head

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#### CONTENTS

I	Authors of Articles Abstracted	11
II	Index of Abstracts of Current Literature	111-VII
Ш	Abstracts of Current Literature	89-168
IV	Bibliography of Current Literature	169-192

#### AUTHORS OF ARTICLES ABSTRACTED

(beshouse, 3 8 go Delait R., 107 Actorios L Deckstone, M to Deichel I zat Varmentouna, (..., 141 Derpirican, J Adem A W e or Deapardars, A. U Atthen, R S 167 Ulen, E V, 160 Attenueus, H, 11 Despitement A U of D'Escope, D A, 110 Di hatala, L 50 Dinostik, T j Drace, O J 243 Alternacu, II., 11. Vadras, W. DeW Immed, B M Decorbor, G D Decorbor, G D Decorate, J J Days ease, F , or Eckness lachbeun, \$ 118 like, 22 B, 116 Rabalautz, L 141 Balleur, D.C., Renerolt, F.W. Eckeron, F. B. 101 Extension, E. D. 107
Expetion, A. A. oa.
Expetion, A. R. 14
Ellistett, I. R. 14
Ellistett, E. T. 67
Fainstens, S.
Farrell, J. T. J.
Fention, F. G. 43 Rardesco, N Barnard, W.G. 144 Becker S. W. 163 Bela, H. 48 Benedict N L o Bengolea, A. J. Bennett, T. I. Fenten, R 1. Ferrance A B Feed, A B 167 Fact, F A, 95 Foster J M J Fac, S L, 105 Blalock, A 19
Bohrsanson, U 21
Borckandt, H, 92
Borsorth, D M 4
Boyle, P E 94
Bossen, E J, 140
Brandrass, H, 4 Cruser o Geoduciter C Bration, A B 6 Bra E A 58 Brocher J E W Breeks, B 50 Gurdeno, L 20 Gubert R 41 Breets, B m Brews, C J O 11 Broyles, E V 103 Culture, L. 01 Culterion, A Goesce da Cesta, S F Brunchus, A Grano, R 67 Surbary W M Caffer, P 96 Caldwell, W L Gray A 4 91 144 Gray II K Grier O W Gross R E Calef C 3 Carls C 13 Carlson, H A 143 Command S Us Hakirman, E O Casty A E. 69 Castrovitio, R. 6 Hall ( ex Hars, II ) Harima, 31, rischen, 31, 38 Hartonin C G ros Hench, P S Call J M Bo Column, 155 Hench, P. S. 19 Herrmann, L. G. 141 Costs, O Creeknan, M House G J rea Committee, R. E. Cather b C oo Hone Robertson II J gar Cutture, R 4 Devis L 00 Hawrith M & all

Jacobi, W 98 Jame, H A , 16s Jenkusson, E. L Phender, D. B. p. Placings G 99 Fagrenad, H 2 Jenkinson, E. L., 51 Innerse Corventes-Praelo. Portett, A L 154 J ps Jucius, S S 145 Kandici, E 146 Prey D ros Price, L. W 164 Code, F II 99 Rainer M II Kepler E J Kurkim, B R Reid M. R., 144 Reinhold, F. J. to Roberts, S. K., 162 Kirkman, L.J Chiten, L Kontoba, A. z. Krabbe K. H Robertson, II E 143 Romes al, 1 pr Kracks R. R. 16s Roadil, O 141 Lucarea, R Rousset, 1 148 Roussey G et Russell, D 167 Ladd, IV E Lee, H 5 Lee-Roy, C. M Levets, D ros Lexer E 140 Lexis, W I 02 ma, X S man Sames, \$ 130 Sent, E Schundt, F. R. 132 Schunder M T of Livingstone II Lordy, W. p3 Lord, J. M. p7 Lord, J. J. p5 Lord, C. C. p4 Lord, C. C. p4 Schools, B. 190 Statt, R. K. Salvegge, G 32 Sergent, E 07 Selectroned, T 124 Strandone, G , 43 Smalls, 1 J D CKeepe D Madress, G Sodazo A Sonates, E Manou, Il roy Seto-Hall, R 141 Maracla, 1 ù McGaw IV II Staley R. W. Marilère, J Marton, P Smiles, C. V. rt Trans M. S. sab Mikhelera, G Maley, H. C Morod, R. red Tayreson, P Traum Ras, O Uhle, C A W lance, D M Montgomery J B Museager H , of Musekewicz, L Vermontes. V Neurosager, C H Vanteca, V 15 Veron, J 7 Walters W Aerenier W 14 Obvecreas, II ceo Walther, O., 183 Waters, R. M. 12 Ohrer H 6 Overbolt, R II 109 Water R M. P Pampan, D Parett, G Release, W. R. I Rade J M 167

Patram ()

Petrin, G 105

Peterson, L

\*\*

32

Il algend

Brant E D

# CONTENTS-FEBRUARY, 1935

# ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK		New Hills W. The Content of There if (stant)	t)*
Hend		Hormore in the Blood Dunne Preznar v	1 4
Cip, J. M. I pidermoidal Glioma of the Scalp	٤)		
DECHAUME M. Localized Hypertrophic O terrison of the Maxilla: Pathogenesis	۲,	SURGERY OF THE MERVOUS SYSTEM	
HI NATATE, L. Intraglandular Calculous of the Submaxiliars Gland	۲,	Brain and Its Coverings, Cranial Iverves	
	•	Porss, 6 and Merison M. A Study of the Intermedian Lobe of the Hypophysis	, ,
Eye		Louis, W and Jacon W Tin Importance of the	
Inverso , P The Nature of the Flementary and Initial Bodies of Trichoma	65	Intracranial Pressure in the Cimulatory Condi- tions of the Bruin in Arteriographic Visual ration	ŕ
Inso , A. W., and BE TORT, W. I. Hamingio Endothelioma of the Orbit. Removal Through a		PHILLIPS G. Kadiography in the Discress of Intra- cranial Tumors	4
Tr in cranial Approach	91	Gross, S. W. Tumors of he Brain in Infancs. Chira	
Custrovirjo, R. Keratoplisty	O.I	cal and Pathological Study	100
Hope Ponertso W. J. Henrangioblestomatous Cysts of the Retina	02	FCGSTO A A Pathways of Infection in Suppura- tive Meningitis	10-
I man, W. I. and Apro , A. W. Undateral Central		Outliero 1, H. Tarasmital Meningimata	153
and Annular Scotoma Produced by Callus from a Fracture Exterding into the Optic Canal Re-	0,1	to 5 Associated with Cell 1 cations of the Bruin	
port of 1x 2 Cases  INT T K and 1 From 1 G. The Maintages of	٠,٠	Cortex A Cir cal and Anathropation-real Contribution	101
Intravenou (I vipan) Anarthesia in Ophthal mic Surveys	93	Fr. Tr., P. A. Danno tic Factors. Concerning. Herpes Zes et Oticu.	10
		Pind G The Problem of Soice Cerebral Starp-	
Far		toms Micr Operations on the Pleara or Lund	10
Let S. A. A. The Otosclen six Problem. Technine Reports of Two Calas I ramined Pathologically	n,	Devi I The Kelati is of the Hop phose Hopo thalism and the Auton is a Serious Sis em- to Carleit deate Met Julium	
		Import Tallong IM Telegraf	t
Mouth		( a tation on the America Hypogety coldina	
The Yellow I The Saliva	22	I car 1'c I at	31 -
Lean C.C. A Companion of the Apparent Ind- heorits in Cares of Carein, major the Mouth in		many State and D. V. Controlled	
kelation to the Len th of the Lotton Up	¢	BE on IB and I Han I h I land was	
Bista P. I. Introdulate In tests in a Deput	۲ ۽	rink Diese	
		Spinal Cord and Its Coverner	
Pharynx		BETTER THE KAPPER ME HE HE SERVER	
Herr C. F. e. Larapina mesal S	£		•
The state of the s		comments (contractions)	

95

105

αń

οŝ

σ

tch

80

3

14

14

24

OVERNOUS R. H., and Economics E. R. The Twent mest of Cancer of the Breast and the Results of Operation

Fox. S. L. Sarroma of the Breast.

#### Traches, Lungs, and Plaure

FOSTER, J.M. Jan and Parry D. The Treatment of Acut Transpatte Hemotherax

HARA, H. J.: Organic Foreign Boshes in the Bronchi The Reaction of Long Transa in Rabbata

SERGERY, E. and MARON H. Cure of Pulmonary and Theracic Mycoms DERRE R and Granter, E. Gas Cysts of the Long

and Broughtectans REMOTOR'S F Ja and Racylles, E. N. The Surpcal Treatment of Caremona of the Broachi and

Lunc Movoo R and Department J Single-Stage Lobectomy with Open Places

Personal G. The Problem of Severe Carebral Sympotores After Operations on the Picture or Large

#### Heart and Pericardism

COTARE E C and SCHERITER, M T Total Thyrestictionsy for August Pentors.

#### SURGERY OF THE ADDOMEN

#### Abdeninal Wall and Puritoneum

PARTARI, D. A Case of Mokspie Ventral Hernia— Speed's Hernia—with Communicati Strango-lated Unduled Hernia

Rampaco, N. Occalt Enquetric Hereia.

#### Gestra Intestrusi Tract

Go. E. H. K. HALFOUR, D. C. and KIRKLIN, B. R. Cancer of the Strenach

SOUTHAIRDY, G. On the Technique of Partial Contrectomy (Bulbroth I)

Creeks, G. Late Intestinal Stemmers Secondary to Hernal Incarcurations

I ADO W E and Gross, R E Intertraception as Infancy and in Childhood A Report of 275

Carre Printed L. Adheson of the Terminal Reum and Bern of the Adherent Terminal Beam. An Anatomical, Chancel, and Christostatustical Dindy

Devector, T The Origins and Evolution of Co-ACRES (SEC.)

Beamman, II Appendicts and Acets Influence tory Andomisel Conditions in Scarlet Fever A Report of Nuc Cases and Review of the Later ature

Harrieric, C. J. O. Desalte from Appendicates Armeta trowners, L. State One Cases of Volvolus of the Segment, and Observations on Their Sermost

Treatment LEE H and STALEY R W Laffamenatory Streturns of the Rectum and Their Relation to Lymphogramions impunsie

ROUSET, I Acute Postoperative Deletation of the Stomack Commissed by Perforation

Eccupier, A. R. and Junemator, E. L. Ukeratrone of the Stemach and Small Interior Follower Rocatera Therepri Report of a F tal Cam with Perforation

CUTTING R A. The Absorption of Decision and W torby the Small Intention and the Colon. As Experimental Study

Liver Gall Bladder Pancreas, and Salesa

LORANO, R., In There Franciscual Specificity of Certain Regions of the Liver? BURGOLNA, A J and Scalests, C. V The Provaled Elementson of Gall Stones

Mitexessers, O. Acets Pancrestatus. I. Severa Cauca, with Special Regard to Their Conservative Tirefraget

#### CONTROLLOGY

#### 

December J. The Treatment of Februaria of the Uterus in the Absence of Promoncy

#### Adpenal and Performine Conditions

Ascenume, S. The Action of Gonedotropic Sch-Planted on the Dvery

Movements J B and Farent, J T Is. The Value of Postoperators Romages Insolution in Cartinoppe of the Overy

#### Marcellaneous

KLAPTER E. Crandsohmoscopy A Kew and Sample Method of Experimence.

CALDWELL, W. E., MORO H. C., and D'Escaro, D. A. Report of Further Studies on the Architecture

of the Pulve GILARDERO, E. Remarches and Considerations on Hypophysical and Oversex Horsones in the

America, B. M., and Hurrican, J. Endomitral Furdings in Functional Describes of Meastres-

Kunnoz, R., Kunnaz, I. J. and Carminan, M. Studies Relating to the Time of Human Ovals-

Panora, G. The Problem of the Sumbrity of the Female Internal Gental Organe and the Question of Pain Amonated with Gynecological De-

CODE AND LABOR Stunza, I The Endothelial Says in Obstetrics and

Greenlory Heterotopic Testh and Ther Wattern, W. R.

Sugaricance, with Special Reference to the Jatra Abdomeni Group GILLERSON, A. and FARMTHIN, S. The Tempera-ture and Vascular Resetton in the Treatment of Influencetory Descript of the Family Descrip-

by Heat Procedures WARTER, O. Lymphometomatous of the Female

Ocastal Organs

OBSTETRICS		Bladder, Urethra, and Penis	
Pregnancy and Its Complications		Sare S, and Dorosuou G D Cystitis I mplivements a I In an I lderly Diabetic Woman	
Hornore in the Peed During Pregnines	1-1	II In a Three Months Old I emple Infant Suttit, A. J. D. The Use of Radium in Carcinoma of	137
MADEL & G. The Work of the Unions Bladder in Iregnance	174	the Bladder SELVACCI, C Cancer of the Urethra in the Male	13-
Trains I so G. Abre mil Conditions of Pres. nancy and the Sugar Content of the blood of the Moder and Clid	1 5	VI TICL V., and MITERISCI, B. V. Case of Malicanant Non Carcinomatous Tumor Primary in the Corpora Civernosa of the Penis with Visceral	
triples C. Medigerous and Lemphatic Leuka runs and Moukamars Associated with Preg- nance	125	and O scous Vietastases	13,
Arter H B. Permenus Vennine of Precurrer	126	Genital Organs	
Carrier P Death from LeLimps a	176	Sports of L. Acute Tuberculous Epididymitis	133
Traina Rao G. The Neurovesetative State in Prehius of Pregnance	126	and I pididymo Orchitis  Marsilla A Aberrant Adrenal Tissue in the	134
		Fp duly nus	134
Labor and Its Complications		Moszkowicz, L. The Origin of Cryptorcludism	135
Voron J. and for well. Managed Inhor. The Exercis and Innocuts of Certain Procedures Interded to Direct the Course of Labor.	127	MacKenter, D. W., and RATTER, M. Malignant Growths in the Undescended Testis. A Review of the Literature and a Report of Two Cases	135
(1905) C 1 The Conduct of Labor in Cases of	,	DONATI, D. Fibrogarcomy of the Tunica Vaginalis	•
Placenta Previous with Special Sectorates to the Scalp Lorees	: 27	of the Testicle, a Clinical and Pathological Study	130
Down and the Complications		Miscellaneous	
Puerpenum and Its Complications		Worder of crannel Coiso The Search for Koch's	
Micha P, and Leaver J. Two Cross of Severe Puerperal Anama	1 5	Breilli in the Urine I'r Roy C M Colon Bacillus Hymatum	136 137
Miscellaneous		SURGERY OF THE BONES, JOINTS, MUSCI	ES.
diapho in Ol tetrics	128	TENDONS	
Esturating the Depth of the True Pelvis	1 9	Conditions of the Bones, Joints, Muscles, Tendons,	Etc
	,	McGaw, W. H., and Harber, M. The Rôle of Bone Marron and Ladosteum in Bone Regeneration in Experimental Study of Bone Marrow and Endosteal Transplants	
GENITO-URINARY SURGERY		BRAY, I A, and HYSCH, P S Tuberculous Rheu	134
Adrenal, Kidney, and Ureter		matism A Kesumi	105
Trains Rao 6. The Neurosegetative State in Pyclitis of Pregnancs	126	1 rrcuson A B, and Howerth M B Cova Plana and Related Conditions at the Hip 1 Classifi	
WALTES W. WILDEP, R. M. and KILLER I. J. The Suprarenal Cortical Syndrome with the Presentation of Ten Cales	130	cation and Correlation of These Conditions II 1 Study of Seventy Five Cases of Coxa Plana	138
Austron St. B. S. Pyelographic Injection of the Perirenal Lymphatics	130	Brocker, J. I. W. The States of Inhibition of the Bone Marrow	161
CALEF C Chromocysto copy with Phenolsul phonphthalein in the Diagnosis of Kidney I une tion	131	PATRASSI, G. Changes in the Cell Picture in the Bone Marrow in Infectious Diseases and the Origin of the Toxic Grunulations in the Neutro	
VERMOOTT \ \ and \\115t A GIP, C II The Effects, on the Upper Urmary Tract in Dogs of		phile Cells in the Circulation  Surgery of the Bones, Joints, Muscles, Tendons,	161 Eta
an Incompetent Ureterovesical Valve Unix, C A W Gonococcal Pyonephrosis Report	131	Bozsas, F J A New Attempt at Treatment of	
of a Case with a Review of the Literature.  KOMANI, A A Contribution to the Study of Ste	131	Chrome Ostcomyelitis  Delicher, J and Roudil, G The Treatment of Spastic Paralyses	140
noses of the Ureter  JARRE, H. A. and CUMMING, R. F. Pyeloperistalsis  Characteristically Altered by Infection, with	132	Возможи, D. M. Autogenous Bone Pegging for Грірфузіtis of the Tibial Tubercle	141
Notes on the Functional Behavior of Other Hollow Vi cera	162	Adamestranu, C The Static Conditions of the Foot After Astravalectoms	741

141

43

143

43

143

43

144

144

144

\*

241

46

us

ø

#### Practices and Dislocations

RANCHORY F W The General Outston of the Empressed Treatment of Fractures. 5 Yrs, L. Fractures of the Upper Estremuty and Shaft of the Humerus in Charlhood

Soro Hall, R. and Halpereau E. O. The Treat ment of Fractures of the Carnel Scarshold

#### SURGERY OF BLOOD AND LYMPH SYSTEMS Ricord Yestels

Deroy O 7 Laperamental Seadon in Vencular

Repear CILPERT, R., and Banasaure, L. Rotatgen-Ray Thermoy of Vancanotor Ducturbunces of the Extra utus.

CARGOON ET 4 Obstruction of the September 5 see Cave to Experimental Study

BERRYALVY L G and REID, M R., The Consert in Treatment of Artenovelessus Perpheral Vencalar Decears

BARKARD, W. G. and Breatre W. M. Geogreph of the Functor and Toes in a Case of Polyacterities Nodes

Y VIL B M. Thrombour of the Land of the Land furtremety and Pulmonery Embolism as Complication of Treatm

#### Bleed: Trensferies

Cases

NEUWELLER, W. The Content of Thyroni Gland. Horstone in the Blood Dermy Preparacy TRUTH RAD U Abnormal Conditions of Proc

nancy and the Segar Contact of the Blood of the Makher and Cook 5 E

Microth P and Loctor J. Two Court of Severa Prespecal Assessed SORANO A. The Ruscins of the Blood to Outte-

durabat as Obsternes June 8 8 and Secrement, G. The Problem of

Cadaver Blood Transferon ROWENTS, B. R., and K. SACKER, R. R. Further Studies on Grasulopenia, with Report of Twel-

#### Lymph Glands and Lymphetic Ventile Treary, M. S. Experimental Studies of the Healing

of Hounds, New Germin, and Australiante Transplants of Lymph Nodes DESCRIPTION A U The Etinogy of Lymphobles-

TOUR BRUNGWIG, A and LANDEL, E. A Correlation of

the Hutological Chapter and Chriscal Sympteens in Irreducted Hodekin Dracage and Li sephoblestona Lymph Nodes

#### SURGICAL TECHNIQUE

Operative Surgery and Technique Posteporative Trestment

Balle, 11 Statistics on Thrombons Levening Period of Twesty Leave

ROBERTSON, H. E. Pulmonery Embriene Fellow lot Street Overstee ROCHET I Acres Postoperative Delutation of the Stemech Complexied by Perferation

Antisophic Sergery; Treatment of Western and he factions

26

54

77

Konron & Experimental Results with Rossel to the Treatment of Infected Warnets LEXES, D. The Treatment of Pyopolic Infection and Its Sequeler

#### Assethenia

Lette. T. K. and Favrous, F. D. The Advantages of Intravenous (E man) Asserthesis in Ophthal me Surgery W rest, R. M. and Schotter, E. R. Cycleptopus

Approblem Sources, E. Therspecie Dangers and Inputes. Descrip and Issumes from Local Assesthme. 1

#### PHYRICOCHEMICAL METHODS IN SURGERY

#### Reentgraniegy

LORES, W and Jacons, the The Importance of the Intracrusual Pressure to the Corneliusy Cond. trops of the Bram to Attenney ranks Visconstation PRILLIPS, G. Radiography in the Diagnoris of Is uncreased Tamora

MONTOUREN, J. B. and FARREIZ, J. T. Dr. Value of Fostoperstree Rounigen Limitative in Carrinoms of the Overy

Antenotree, B. S. Preferrabile Inserting of the Personal Lymphatics Omates, R. and Bassianes, L. Romers Thurby of Vascenotor Disturbances of the Extrement

POSTITE 4 E. The Diagnostic and Themposter Uses of Thurson Dunide

Once O 1) Reduction Toward of Castor of the Sine

Europe A R and Innerson, E L. Dicestons of the Stomach and Small Letestuse Pollowse Roentges Therapy; Report of Fatal Lass with Perforation.

#### Rednon

Sherra, A. J. D. The Use of Radama in Carratopin of the Blacker Scott, R. K. Radonetrous A Chalcal Study

Pathological Mandestations # WEATER R D Redionecresa

#### MISCRITATIONS

Chulcel Entities-General Physiological Conditions CUZZUCU, R. A. The Absorption of Destroy and the ter by the Small Intestine and the Colon As Experimental Study

PREMIETE, D B and Live Corton, II Presso Shock

# INTLRNATIONAL ABSTRACT OF SURGERY

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or SURGERY Cortain
omp \CT \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
INTERNATIONAL ABSTRACT OF SURGERY  Gomes of Costa Processes in Tumor Tissue of Tomor Tissue of Termentative Processes in Tumor Tissue of Termentative Processes in Tumor Tissue of Termentative Processes in Typophy committee of Termentative Processes in Typophy committee of Typophy c
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the file in the same Reference and the same
Print and Citylered By Wel Other the 162 II now I British and
Portaged Warrow in Industrials In Properties In Properties Industrial Industr
In Vice in the State of Titalian Grand Solutions  Bizer TT T I (rec & Diera e   Lurther Studies   Grand   Tissues   International Solutions   Tissues   Tisu
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Interior the Land  Interior the Land  Interior to the Chief to Luther Studies  Bigger TT T I (rec Chief to Luther Studies Tissues from Injections  Bigger TT T I (rec Chief to Luther Studies Tissues from Injections Inferior Injection Inferior Injections Inferior Injection Injection Inferior Injection Injecti
Cases as Janobic Cop.
and II Merm
Bicter & W. Melmotic Scolizeme of the elin  Cacce M. Melmotic Scolizeme of the elin  163

#### BIBLIOGRAPHY

Surgery of the Hend and Neck		Genito-Urinary Surgery	
Read	6a	Adresal, Kidney and Ureter	
E	60	Bindder Uretura, and Puns	II.
Ear	10	Genetal Organia	
Nose and Sugges	70	Macellaneous	出
Month	,		
Pharyox Nock	ţ	Surgery of the Bours, Josefs, Mondon, Tends	_
	•	Conditions of the Benet, Joseph, Muscles, Teaders, Ele-	1\$4
Surgery of the Nerrous System.		Surgery of the Boxos, Joseta, Muscles, Testime,	
Brain and Its Coverings, Crainel New co	372	Etc	143
Spanal Cord and Its Coverings	73	Fracture and Delocations	1
Perspheral Narvas	173	Orthopedas in General	L)+
Sympathetic Nerves	171		
		Surgery of the Blood and Lymph Systems	
Surgery of the Cheft		Blood Vessels	17
Chest Wall and Breast	_	Flood Transferion	87 87
Traches, Lungs, and Pleans	73	Reprulo-Endothèlial System	\$1
Heart and Pencarthan	73 74	Lymph Glauds and Lymphatic Ventes	127
Geopheges and Mechestroum	74		
Microbiacom	24	Surrey Technetoe	
Marine	/4		
	/4	Operative Surgery and Technique Postoperative	· ##
Surgery of the Abdomen	/4	Operative Surgery and Technique Postoperative Treatment	25
Surgery of the Abdomen		Operative Surgery and Technique Postoperative Treatment Anthopolic Surgery Treatment of Woods and In	_1
	75	Operative Surgery and Technique Postoperative Treatment Antisophic Surgery Treatment of Woods and In Sections	
Surgery of the Abdomen Abdomenal Wall and Peritoneurs	75 75	Operative Surgery and Technique Postoperative Treatment Arthopic Bergery Treatment of Wounds and In Sections American	1
Sergery of the Abdomen. Abdomenal Wall and Peritoneura George-Intentinal Tract	75	Operative Surgery and Technique Postoperative Treatment Antisophic Surgery Treatment of Woods and In Sections	胡
Surgery of the Abdomen. Abdominal Wall and Peritonome Castro-Deventual Tract Laver Gall Blacker Pancress, and Spices Miscellaneous	75 75	Operative Surgery and Technique Postoperative Treatment Arthopic Bergery Treatment of Wounds and In Sections American	胡
Sorgery of the Abdomen. Abdomenal Wall and Peritoneura Gentry-Investigal Tract Liver Gall Blackler Patternas, and Spices	75 75	Openitive Surgery and Technique Postoperative Treatment Antihopide Surgery Treatment of Tomords and In- Sections Associations, Sangural Institutional Surgery Institutional Surgery Department and Appairates	胡
Sorgery of the Abdomen Abdommal Wall and Performen Gestro laterians Tract Lever Gall Binder Pancreas, and Spices Linecthonous Oynocology Uttra	75 75	Operative Surgery and Technique Postoperative Treatment Antiseque Program Treatment of Weeds and In- Postope American Surgeral Instruments and Apparatus Paymonthesized Methods in Pargary Recommendary	1 推出海 均海
Surgery of the Abdoman Abdoman Wall and Performers Control to establish Tract.  Abdoman Wall and Performers and Spices Interchances:  Oynocology  Utter Address And Performer Conditions	75 75 77 78	Openitive Surgery and Technique Postoperative Treatment Antihopide Surgery Treatment of Tomords and In- Sections Associations, Sangural Institutional Surgery Institutional Surgery Department and Appairates	
Sorgery of the Abdomen Abdommal Wall and Performers Control instituted Tract Lever Gall Blacker Patterns, and Spleen Almerikanous Oynocology Uttres Adheral and Parweterine Conditions Extremal Contains	75 75 77 78 78 79	Openiture Support and Technique Postopeniture Treatment Antisophic Surpery Treatment of Western and In- Sections Assentations Surperal Instruments and Apparatus Physicothecates Methods in Jusquey Roomprackey Endison	1 推出海 均海
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# INTERNATIONAL ABSTRACT OF SURGERY

11'5RU 1R1, 1935

# ABSTRACTS OF CURRENT LITERATURE

## SURGERY OF THE HEAD AND NECK

#### HEAD

Cid J. M. An Epidermoldal Glionia of the Scalp G. T. T. T. T. T. Art a trees calculate. For

the alterity sets a case of the or heated between the acids and craiming. He histological discussions are entertiable for the structure of the respiration resembled that of exertifiation te resembles in a section of the charmona, meninged bottom, are a copyright on a single first of the best of the morphological contents are the old beginned at the restricted formed time to that the xine of the latter to which it her ingularity and the description

The respired is called hold an op-dermoidal glisms to indicate the trivial and extreme as the clist that hold in epithel different and arrangement. The mediation of the trivial community of the directed to and necond transformation a factor age ting a close relationship between the cells of Schmann and the epitheloid or Indications cells of next and Mariner MD.

Dechaume M. Localized Hypertrophle Ostelils of the Maxiller Pathogenesis (1) of the hypertrophacterised endes maxillares. Consularitions pathographics. Press red. Par. 1033, 4–44, 4

The author reports in detail three cases of localized hypertroph of the upper jax. The ages of the jactic its is ere trients eight thirts four and forts six sears respectively and the duration of the disease ranged from a few months to five years. In each case the hypertrophy appeared clinically to he due to often caused by infected teeth. The deformity is moderate consisting of a diffuse swelling of the ill colar process. Roentgenograms showed mottling due to alternate areas of rarefaction and condensation, highly as interpreted as evidence of osterits fibrosa. Biopsics were made in each case. In two cases, the specimens were sent to two pathologists one of whom diagnosed the condition as a simple

estent and the other as a tibrous o tests clo ely related to grant cell tumor. In the third case in which the condition central clinically to be definitely of an infamiliation and relating to the parthologist reported a clause under to that cen in leontiasis o sea sto lies of the blood receiled only a mild at a min in two cases.

In car i foring these hypertrophic changes in the upper raw as a shole the author states that the histo-logical changes are not a faciently characteristic to serve as a base of class mation. Therefore to distinguish like the entrant cell tumor, localised you becklinghausens diese e feoritists of sea and hypertrophic of eats of purely inflammatory origin it is received to rely upon chincil signs. The cut see except when infection can be definitely established at many classes. Change in the blood and the enducting organs are hypothecated.

The article contains six roentgenorarins and five driving of casts of the eeth indicas

MINITT DI GROAT M D

DI Natale, I — Intraglandular Calculosis of the Submaxiliars Gland (La calcolo) intra ghando late della (ttomas ellare) — treh stal di el r., 1934 37 247

The author reports two cases of intriglandular calculi of the submaxillary gland and reviews the literature relating to these concretions

His first case vas that of a man sixty four versof age who had noted a small painful nodule in the region of the left submixillary gland for about twenty months. The nodule slowly increased in size. I ollowing the application of alcohol packs over the gland the symptoms gradually subsided. After the initial attack the patient was relatively well until about one month prior to his admission to the clinic when he noted pain and a burning sensation in the region of the left submixillary gland. The nodular mass in this region had recently again increased in size and its borders had become less distinct.

Physical examination revealed a mass the size of a waln t in the remon of the left submarillary sland. The overlying skin was ordematous. The tourus was displaced to the right by protrusion of the mass

int the floor of the month

Under local angesthesis, the author resected the entire submaxillary shand. The reserted mass was bout the size of hen ear and it one note them was calculus the use of a small put. Flutoforical examination of the reserved cland showed a marked infiltration of the gland with round cells and fiberblasts, and destruction of large rous of sland tis-The tubules were dilated and contained many anall concretions in addition to cell dehim

The second case was that of a man thirty four years old who, about one and a half months before his admission to the clinic, noted small pes-stred nodule in the region of the right submarillary gland This module stadually increased to boot the sim of a small nut and became slightly painful especially during mastication. For five or ser days there had

been dryness of the mouth

Physical examination disclosed a small, firm, nut sized tumor in the remon of the right submaniflary gland. The nodule was only slightly movable and not tender Tray examination showed Internlarly round shadow of bony denuty in the region of the right submaxillary gland

Under local amenthesia the author removed the entire submanilary gland. The postoperative course

was unevential

The resected gland contained a small, vellowishwhite nut-sized calculus must niche within the elandalar trace

Histological examination revealed evidence of dereneration due t stans secondary to occlusion of

the entretory system prefer of the literature on submedilary calcult, the athor concludes that the came of the tone formation as not known. The cakuli have been timbuted to dimenic conditions, diet, and heredity. They occur i all ages. They have been found in an infant of three weeks and in persons

sixty-nuce years of age

The nathogenesis has been sacribed to steals in a long tortuous Wharton a duct, but ligation of this duct in animals does not cause the formation of tones. The chemical theory attributes the formstion of the stones to the production of salivary secretion supersaturated with informal salts which are preceditated out of solution. The mechanical theory ascribes it to precipitation of the salvary salts around foreign bodies such as dental tartar, dead spithelial cells, food, and vegetable fibers lodging in the ducts. According to the infective or parasitic theory the calculi develop following infection of the gland Various organisms such as leptotrix bunells, streptococci, staphylococci, paesmoment, blestomycoars, and actinomycoses have been demonstrated in the calcult. The a thor is of the opinion that injection is an important errological factor.

Pathologically the gland containing a calculus shows various stages of inflammation reaster from the mild reaction noted | the author's second care to appouration and acteroals of the cland. Microscopic examination above an endovescular and penvescular ademais with dilatation of the converd cts. destruction of glandular times, and error sive connective-tissue proliferation

As a rule there is only one calculus, but in some cases several small culculi are found scattered throughout the gland, usually in the intractuadehr canalicult. The calcull are small and must said have irregular surfaces. They vary from grands to yellow or brown. Calculi weighing as much as or gm, and measuring 5 5 cm is leagth have been reported. The maximum circumference has been r cm and the minimum 8 r cm. Chemical arabus has alrown calcium phosphates, curbonate organi

material, magnesium and sodium chloride, aric sod,

end ima

Unlike stones in Wharton duct, calcul is the submarillary gland may produce so symptoms is: a long time. As they increase in sire, they me cares dull pain in the region of the involved plant. Rarely they may cause a decrease in the secretica of salva with resulting dryness of the mouth or acute retention of saliva due to obstruction of see of the larger ducts. The giand manily becomes the fected with consequent manifest those of acute and chronic injection

The differential diagnosis of intraghedday of cultus from stone in Thusrton duct can ascelly be made on the basis of the history a th resert to the occurrence of an sente sullvary colic, catheterintion of Wharton's duct, and roentges my examintion. During the process of acute inhaumation with enlargement of the gland, other inflammatory lerlous and tumors in this area must be reled out

The treatment indicated is surgical resoral of the entire gland Although Incision of the place with sample removal of the stone has been suggested, the author believes that this is not advisable as the gland is partly destroyed by the infammatory process, its function is greatly durinished, and the danger of inflammatory complications after such treatment is greater than after extraction of the PLIES A ROSE, M.D. gland

Thypeson, P. The Nature of the Elementary and Initial Bodies of Trachoma. Arch Ophib 1014.

Fallure to produce trachena in blind human e. c. Ith various types of bacteria has been previously reported That virus may be the cause of trackors is suggested by ( ) the absence of a known becrevel came, (s) the positive filtrations reported by hands, Cuenod, and Blairot, and (3) the presence of Huberatacdfor Proxasch cytoplasmic incluson bodies is the conjunctival epithelial orbs

The filtration experiments of three groups of forestigators indicate that while the agent of tracks ma is generally not tiltrable, the disease may some times be produced by bacteriologically sterile til trates. It is possible that the usual mactivity of iltrates may be due to absorption of the agent by the filter rather than to the large sare of the particles. The cytoplasmic inclusion bodies of trachoma are basefulic and heterogeneous whereas the inclusions characteristic of many virus diseases are acid-plante and homogeneous. This difference led to denial that the inclusions of trachoma are of virus origin an objection which has been refuted by more recent investigation.

A detailed study or the nature or the trachoma inclusion and its components indicates that the initial and elementary bother are stages in the life evele of a virus which may be the etiological agent of the discree. The busines are present in large num bers in the subscute stages of the disease but tru often dut cilit to demoistrate ri croscopically in the chronic states. They constitute intracellular colomes of the virus. The small inclusion made up of initial bodies is the early place, and the large incluson, made up of elementary hodies, is the late phase. By analogy with the phases of inclusion hodies in blear or their and partiagous the elementary bodies of oild constitute the infectious phase of the disease and the adsorption of the elementary bodies of hacterial filters should explain the usual nonultrability of the trachoma views. Succe stul filtra tions are possible by the use of graded collodion membranes with suspensions of elementary hodies Invers & Pett MD in high concentration

Adson, A. W., and Benedict, W. I. Hemanglo-Indothelioms of the Orbit. Removal Through a Transcranial Approach. Irch. Opith., 1034, 12-55

Tumors caused by an increase in the sile of normal vessels or the formation of new vessels occur in the orbit as angiomata of various types or variouslites with or without a direct arterial communication. If such tumors become pulsatile because of a copious arterial supply or because of juxtaposition to a large arteria, they tend to become larger through expansion of the blood spaces and involvement of contiguous tiesue.

Exophthalmos is the most frequently observed sign of the presence of an orbital tumor, but in cases of vascular tumors it is of particular significance. The situation of a vascular tumor within the orbit its continement by the bony walls, the volume of blood it contains, and other factors determine the intensity of the pulsation, the rate of expansion or growth of the neoplasm, and the character of the erosion of the bone.

Highly vascularized tumors of the orbit result from inflammation or injury or occur spontaneously. These include fibromata, endotheliomata, and lymphangiomata, a relatively being group. The poor results are due to pressure on the globe and orbit.

From clinical data alone it is sometimes impossible to identify true angiomata and other highly vascu-

Inneed tumors. A copious mixture of arterial blood in the large vienous spices may be detected by tests for exigen and carbon dioxide performed on blood withdrawn through a cannula, a valuable aid in the differential diagnosis of pulsatile tumors. Roent-genograms disclose ero ion of bone, but do not clearly reveal the tough membranes which develop as a protection agains, expansion of the tumor and form important structures that may be utilized in surgical reconstruction after removal of the tumor

On the basis of the principal reasons for the surgical attack the various methods of treating vascular tumors of the orbit may be grouped as follows (1) ligition (2) compression, (3) irradiation, (4) injection, and (5) extirpation. The procedure of choice in a given case depends on numerous factors. A combination of any of the conservative methods may be tried before extirpation is attempted. If surgery is undertal on, the surgeon should be prepared to light a carotid artery if necessary and to deal with sudden and copious ha morrhage.

Because of the difficulty of adequately controlling hymorrhage in the deeper parts of the orbit and the impossibility of going beyond the orbital walls to extend the operation as far is may be required, a frontal approach through the eyelids does not provide a sufficiently wide assenie for the operative ratticl. On the basis of previous experience in the treatment of cerebral meningiomata invading the bone and entering the orbit and on the basis of Nafiziger's work on the treatment of exophthalmos, Adson and Benedict concluded that in the case of humangio endothelioma of the orbit reported in this article it would be fersible to remove the moderately large vascular tumor by the transcrainal approach. This approach proved to be adequate and effective

In conclusion the nutliors state that the ease vith vith the hamangio endothelioma was removed suggests many possibilities for the transcramal approach to vascular and neoplastic legions situated in the retrobulbar space of the orbit

Castrovielo R Kerntoplasty In J Ophth , 1934, 17 932

Of the three methods of corneal transplantation—total, partial superficial, and partial penetrating—the last yields the best permanent results. The corneal transplant must be obtained from the same individual or an individual of the same species.

Castroviejo reports on seven unselected cases of leucomatous cornea in which partial penetrating leratoplasts was performed. In some cases the leucoma allows examination of the anterior segment by the usual methods. When the leucoma is too dense for such an examination, anterior and posterior trans illumination will yield information regarding the presence of anterior or posterior syncehia. The best results are obtained when the leucoma is not too dense and there is little or no scarring in the surrounding areas.

The technique of the pre operative and postoperative care is described in detail. The corneal transplant and the opening in the corner of the reciplent must correspond in size exactly and traums to the transmiant must be avoided as much as nonable. The transplant should be held in place by conjunctival faces

If the corneal leucosta is the only nathological change the conjunctival flava will probably beefa to separate and the transplant may be uncovered after two or three days. The conjugatival sutures usually come out from eight days to three weeks

iter the operation

When there is heavy scarrior of the communities around the corner, a large irridectomy aboutd be done first because of the tendency toward elegenma. Transplants should be taken from empleated eves with unaffected corners which were removed under general ascerbenia to prevent the corneal fallery that occurs in removal under local anesthesia Corpeal transplants from plantomatous even tend to remain orderators and later to become nebulous.

The importance of blood grouping before keratoplasty is yet to be determined. Is all of the lest six cases reviewed by the author the blood was

different

In discussing this report, KEY described transplantation of the whole corner-corneccillaroplanty-for the in creek in which the corner to too dense to allow sufficient nourshwest of the transplant. The method commuts of disection of the whole corner from Describer membrane together w the confunctival dap, to preventing the queous humor from coming into contact with the new transplant.

Carracythro agreed that the armeous humor should not be allowed to remain in contact with the promotected corneal attenta any longer than necesmry but empressed the column that the use of an accurately fitted transplant with consunctival flane for pressure is an adequate method of obtaining a water-tight closure. On the basis of observations in annual experimentation, he believes that esdothelmus affords as good protection as Descemets membrano EDWARD S PLATE, M D.

Hope-Robertson, W. J. Haustaugiobiasteenstous Cysis of the Ration. Australian & New Zasland J Swe 94.4 15

The author reports a case of hemangoblestocast orn cysts of the retriet bocause of the rarrity of the condition and because of the important fact that you Hippel' dragge is frequently associated with hermangioblastoma tous cysts of the brain, Licineys, pancress, liver adrenals, and epidadyouts. The association of these crats in the brain and retina and the lever and nencreas is called "Lindan's syndrome

In some cases there may be a crut of the brain and a polycystic kidney but no lesions of the retine, in others, a cryst of the brain or spenal cord but no other lesions and in third group, crats of the brain and retine. Lindan states that the obsesse is familial in so per cent of the cases and has been known to occur in three generations. In 5 per cent of cures of hemandoblastomata of the retina there are amclated hemanpoblastomata of the bests Exces In the very late stages, the cheese is really degreed in the eye. Therefore when a patient later develope signs and symptoms of a brain tomor, the eye comtion is a very useful clue to the nature of the besie lexion. In all cases of brain tumor the scaler finds should be thoroughly examined not only for prokrdems but also for hemasyloblestoms, and m di cases of human richlastoms of the retire an examina tion of the central nervous system should be made Harmanzioblestome of the return may appear at any age after the second decade. It is more common as major than in females. The lexions are frequently

multirite The patient usually presents himself completes of faillian vision. Darier save that enistaris, curled gia, and dazzline before the eyes are prepository symptoms. The malority of the cases reported was to show that the visual defect comes on beneficially In most cases the condition progresses to absolute bhadaese, usually a lik secondary chromus which m many instances peremitates emideation of the es-When detachment of the retion begins complete blandness sonn results. On ophthalmoscopic examination the disease is characterized in the curly stages by one or more round redshah tumors. Ith which ear or more greatly colarged and tortures arizons tol verns communicate. After the tumor has been preent for some time it begins to produce the trut which is the cause of the detachment. As the growth is ecorposed of thin-walled capellaries it gives rue to repeated hemosphages. The hemorrhages appear first in the retine and may then break through take the varreous or M they break through the extensi limiting morebrane, may penetrate between the retma and thorold. Numerous exudates appear is the layers of the retine Eventually retincts per blerans may result and tause detachment. The crit usually increases in size until the retise is completely

The growths in the brain occur generally is the tereballum and medulla. Lindau states that the lexions found in the kidneys and liver are not hemanglomatous but represent an association of one type of congenital lesion with another

Lenns L. McCox. MD

Lillie, W I and Adeen, A. W Undertral Central and Annulus Scotomes Produced by Calles from a Fracture Extending into the Optic Count Report of Two Oness. Arch Opich 454.

The authors report an unusual apathahnelegical syndrome occurring in two cases following a fraction along the base of the skull which involved the some canal and was not revealed by recutgenograms. The syndrome was so similar in both cases that it might be classed as almost pathognouscase. At the time of the injury both patients presented an earlymosis of the eychds and incomallity of the pupels. The only visco complaint at the time of the injury was made in the first case and was due to partial internal opatheless plegia. Both patients were dismissed from the hospital as well, and it was not until from six weeks to two months later that the progressive loss of vision was sufficient to impress them with the necessity for At the time of the second oplithal re examination mological examination in each case, identical changes in the perimetric fields were found and the pathological changes revealed by roentgenograms of the optic foramen were similar

The authors believe that localized roentgenograms of the optic foramen might be of value at the time of injury and should be repeated at intervals if necessary This technique has been simplified by Camp Although the described syndrome and Gianturco apparently is rare following fracture along the base of the skull, it necessitates a guarded prognosis following any injury of the skull. Lillie and Adson be lieve that decompression of the optic nerve is indicated, but should be done early in the progress of the lesion before permanent injury has occurred

I le T K, and Fenton, F G The Advantages of Intravenous (Evipan) Anresthesia in Ophthalmic Surgery Brit M J, 1934, 2 589

Anresthesia induced by the intravenous injection of evipan has been used extensively in general surgery The authors report on eighty six ophthalmie operations in which it was employed Special advantages of this type of anasthesia are the freedom of the operative field from cumbersome inhala tion apparatus, the relatively low incidence of the usual after-effects of general an esthesia, safety in the cases of old and enfeebled patients, and a decrease in the intra-ocular tension during the anresthesia. The only contra indications to its use are extensive disease of the liver and kidners

In the cases reviewed a solution of 1 gm of evipan to 10 c cm of sterile water was employed. The dose varied from 41/2 to 12 c.cm of this colution Children require slightly more according to weight. No preliminary medication is given. The drug is injected slowly until the patient is unable to count this stage half of the necessary dose has been administered and a like amount should be given at The average patient remains fully anæsthetized for from fifteen to twenty five minutes. A further injection may be given when the patient begins to recover from the first injection. In this way it was possible, in one of the cases reviewed, to obtain anæsthesia satisfactory for an operation requiring an hour and a quarter

SIMILEL A DURR, M D

## EAR

Gray, A A The Otosclerosis Problem Including Reports of Two Cases Examined Pathologically J Laryngol & Otol , 1934, 49 629

Gray states that the essential causative factor of otosclerosis is a gradually increasing defect in the vasomotor mechanism which governs the nutrition of the structures of the organ of hearing as a whole

Included in this vasomotor mechanism are, of course, the aron reflexes. The stimulus which excites the vasomotor mechanism is sound and sound alone Consequently the vestibular apparatus and the semi circular canals are unaffected in otosclerosis

There is no evidence whatever of a defect in any of the endocrine glands or their secretions in otosclerosis. Neither is there any evidence of a defect in the bone metabolism of the body. On the contrary, the subjects of otosclerosis are, apart from their deafness, perfectly normal individuals with ordinary average health

The deafness of otosclerosis bears very little relationship to the extent of the disease in the bone. It may be very severe when the stapes is hardly fixed

The severity of the tinnitus bears no relationship to the extent of the disease in the bone

The extent of the change in the bone bears very little relationship to the duration of the disease

The extent of the changes in the bone appears to depend upon the age of onset of the disease. The earlier the otosclerosis begins, the more extensive will the bone lesion become

The deafness of otosclerosis is to a large extent functional and the result of the insufficient supply of blood to all the nerve structures concerned in the perception of sound

The greater frequency of otosclerosis in momen then in men is due to the greater instability of the vasomotor system and the more frequent disturbances to which this system is exposed in women

The changes in the bone show a remarkable bilateral symmetry, even to minute details. This symmetrical distribution is readily explained by the author's theory of the causative factor of otosclero-The vasomotor nerves governing the nutrition of the organ of hearing are anatomically symmetrical like other nerve structures in the body. Therefore, if structural changes occur as the result of defective functioning of those nerves such changes will be bilaterally symmetrical in their distribution

JAMES C BRASWELL, M D

## MOUTH

The Saliva Duyrensz, F Proc Roy Soc Med, Lond, 1934, 27 1583

In a study of saliva the first problem is to obtain the saliva in satisfactory quantities. It should not be "stimulated" saliva as changes in the quantity are usually accompanied by changes in the quality of the secretion The usual amount for testing is 20 c cm The author describes his method for collection and reports the findings of his studies with regard to the presence of hypophyseal bormones in saliva, the hydrogen ion content of saliva, and the salivary content of calcium and sulphocyanate

He states that the pregnancy test of Zondek made with saliva instead of urine indicated that it is possible to diagnose pregnancy by means of a biological

salivary reaction

Two methods of determining the hydrogen ion concentration of salvra and a method of determining the buffer action re described. The buffer action popular of more significance and should be given more consideration. No conclusions are presented in this article regarding the clinical polacition of the information obtained by the tests described.

In all alloe salvas the phosphorus content is usually low and the calcrum content high. In seid salvas the reverse is true. In regulating the calcium content of the salva by diet the intake of phosphorus and of visituits D must be taken into consideration.

The thor describes method of ultra filtration which separates the various serum collocis from each other without cassing changes in their chemical or

physical qualities

H states that sulphory anate is always found in

human saliva, but little is known of tip purpose. The sulphocynant content is defautely increased by smoking Sulphocynant compounds enert an aftert pour the slood pressure which may be factor in prorthers. A compared waterly of the capitaries of the groun, slink, and and both with the Loca centers and the sulphocynamic state of the sulphocynamic state of the sulphocynamic state of the sulphocynamic state of the meeting distribution. Capital W Frazzase DDS

Lund, C. C. A Comparison I the Apparent End-Results in Cases of Carcinomia of the Mouth in Relation to the Length of the Follow-Up. Am J Caser 1914, 22 115

According to the American College of Surpeors, artificatory reports on the treatment of curticome and the control of the contr

The cases studied were treated by surgery or irradiation or both, depending on the extensiveness of the lesson. A effort was made t compare the

efficacy of the methods

Of the patients treated for carcinomia of the mouth whose condition as farousable it the time of the treatment and who remained ell ( the end of year a recurrence developed during the next four years in only Of 33 others treated for oral carcinomia, all developed recurrence during the first year.

Of the 16 patients be one treated surpostly for caremona of the lip and whose condution was favorble t the time of the operation of remained cured t the end of a yea. At the end of five years, 8 still remained cured and 4, ere dead or not traced

I cases of carefuonna of mouth which are less favorable and were treated by irradiation, fewer than one-half of the patients who were Eving and well t the end of one year were Hving and well at the end of five years. Between the one-year and five-year period, the

Between the one-yes and five-year period, the number of patients apparently cured declared from

one-quarter to one-half.

The death rate from new primary becal or choosate was 15 times as great as the expected death rate from booral carcinoma in a group of patterns of the same age and sex and in all of the case the death rate from new primary carcinomate was 3 times as high as a calculated. Loos T. Paues, MD.

Boyle P S. Intractilular Bacteria in a Destai Granuloma. J Desial Ext. 212, 2 107

Because of contamination of auterial and to culture or higherion, the relationally between densi infection and systemic disease does not lead heal ready to experimental lawrestigation. Devet istological evidence of intraordinlar organisms in detail granulemant is therefore of importance. The author reports a granulema presenting such evideouwhich was found in the prottice haptedgrial et amination of 100 texts. In the center of the soft amination of 100 texts, in the center of the soft many monocontert plans grant of the foun off variety. Practically all of these critic contributions are considered to the contribution of the conmitted of the contribution of the content contribution of the contribution of the content contribution of the contribution of the content content contribution of the content contribution of the content concertain content concertain concertain content concertain content concertain concerta

# LOUIS T BELLS, N.D.

PHANYICE
Hall, C. The Parapheryngest Space. An Anatomical and Clinical Study. And Out. Revol. Large 934, 41, 793.

For an understanding of the etiology symptoms, complications, and therapy of infection is the various regions of the neck a general knowledge of the

deep cervical fascs is essential

All of the important structures of the arck are

continued within the bounds of single large certain sheath which strated from the base of the all bors to the upper each of the thorax below. The great cervarial about in tensibly referred to as "reperficial layer of the deep facia. Media tensons of the layer fire and structure a beyond facial envelope. From a practical standpoint, there are two deep deviations of the strate cell in the vaccinal facial or about, and the preventional facial countries and the preventional facial.

Britam the vacceral shouth his the resolution, you'd, and depitition, organs his the reft and, is addition, the thyroid and parathyroid glassis. When the shouth becomes quits thethered and passes as front of the bodies of the cervical creber, his scalesus amount, the longer acroll morke, the phornic and sympathetic nerves, it becomes knoss as the "prevented fascies."

The star fascia is an expansion hich forms a confi nation between the carotid shouth and the viscoral fascia. Its importance lies in the fact that it completes the anterolateral sepect of the retrepharyngeal space throughout the entire length of the neck and separates this space from the lateral

pharyngeal regions

The superficial layer of the deep fascia—the great cervical sheath-sends in a deep extension to encapsulate the submaxillary gland and another extension—the deep parotid fascia—which completes the capsule of the parotid gland except above

Thus, from a clinical standpoint, there are four definite deep eervical spaces (r) the submaxillary space, (2) the parotid space, (3) the retropharyngeal space, and (4) the parapharyngeal space with (a) an anterior compartment and (b) a posterior compartment (carotid sheath)

Praetically, the deep cervical fascia can be divided into four parts (1) the great cervical sheath, (2) the visceral sheath, (3) the prevertebral fascia, and

(4) the alar fascia

Every deep structure contained in the neck has its own individual fascial covering which it receives from the deep fascia. In certain areas the fascia be comes thickened and prominent—the carotid sheath, for example In other areas it becomes so thickened as to form so called ligaments, such as the stylomandibular In some regions of the neck there are reduplications or reflections of the fascial covering of one structure which render it directly continuous with the fascial covering of an adjacent structure An example is the alar fascia This plays a most important part in the formation of the anterior eompartment of the parapharyngeal space

The parapharyngeal space is composed of two compartments, an anterior or prestyloid, and a posterior or retrostyloid The posterior compartment is the carotid sheath and its contents. It extends from the base of the skull to the upper end of the thorax The anterior compartment is normally a potential space and becomes an actual space only when it becomes the site of disease. It contains a small amount of connective tissue and usually a few lymph glands. It extends from the base of the skull above to the angle of the jaw below

Etiologically, there are three types of parapha-

ryngeal infection

The type which follows tonsil surgery and is preceded by local anasthesia

2 The type in which there is an extension from

a neighboring compartment.

The type in which the paraphary ngeal space is the site of the initial invasion of the deep fascia and is not preceded by throat surgery

Pathologically, there are two types of cervical

involvement

The phlegmonous This is the most common The signs of local inflammation are predominant

The vascular The symptoms are those of septicæmia, thrombosis, or embolism without accompanying signs of cervical phlegmon

There are four cardinal signs of involvement in the anterior parapharyngeal compartment (1) inability to open the mouth widely, (2) induration about the angle of the jaw, (3) fever, which may be

septie in character, and (4) medial bulging of the pharyngeal wall

The treatment of parapharyngeal infection is surgical When the symptoms mentioned appear, early surgical drainage is imperative. To await fluctuation in the presence of these symptoms is to await complications SAMUEL KAHN, M D

## NECK

Quix, F H The Difficulties of Removal of the Cannula Following Tracheotomy (Die Beschwerden des Dekanulements nach Tracheotomie) Nederl Tijdschr v Geneesk, 1934, p 2306

Difficulties arising after removal of the tracheotomy cannula may be divided into those due to changes above the tracheotomy opening, those due to changes at the site of the opening, and those due to changes below the opening The upper portion of the trachea can be examined without removal of the cannula by direct tracheoscopy for changes in the mucosa and perichondrium and incarcerated foreign bodies After this examination has been made attention should be directed to the vocal cords and the tracheotomy opening When air has easy access through the cannula the vocal cords are practically closed, but unless paralysis of the recurrent laryngeal nerve is present they open up when the cannula is closed Bilateral paralysis of the recurrent laryngeal nerve is extremely rare, but may occur in cases of tumor, gotter, and wounds Immobility of the vocal eords may be caused also by tuberculous or syphilitie affections The subglottic region which is usually markedly swollen in diphtheria can be examined from above with the aid of an electrically illuminated spatula only when the vocal cords are separated. For examination of the region of the tracheotomy opening, removal of the cannula is necessary. By the introduction of an ear speculum it is possible to de termine whether the respiratory difficulty is due to granulations For examination of the region below the tracheotomy opening it is necessary to use a bronehoscope introduced from above or through the opening in the larynx Proliferations interfering with respiration which are situated below the tracheotomy opening are not relieved by the use of a cannula however well it is fitted.

The treatment of the various conditions encountered requires the entire larvingoscopic instrumentarium Granulations may be removed with forceps or by electrocoagulation Inflammation of the penchondrium in the subglottic space requires longcontinued treatment To secure the best position for the cannula the opening should be made, not through, but below, the cricoid cartilage

(DUNCKER) JOHN W BRENNAN, M D

Cutler, E C, and Schnitker, M T Total Thyroidectomy for Angina Pectoris 1934, 100 578

The authors studied twenty-nine patients subjected to total thyroidectomy for the relief of angina pectoris since December 93 at the Peter Bent Brigham Hospital, Boston Onl patkents with the nriginin Hospital, Borton Uni Fatherits with the most severe form of the disease (anging decibiting)

Within foct hours after the thyroidectomy there deaths du t coronary dosure There ere fou late deaths hich occurred from five day eight months ad three weeks liter the operation t expat mountain and more weeks there are operations. Each of these deaths as of cardiac right. In all of them or more ocurans as or estimate right, an automote entity-cone patients followed for from 1 o and one dusties ( sericen months the brind 1 serimes seen quarter t seatern montess the pennit a manness aco-releved. In ten, the improvement ranged from 90 i oper cent in four from 35 t 80 per cent and in conference in four from 35 t 80 per cent and in feet from 50 to 74 per cent I to 1 as feet than 5, per cent The critina of improvement acre

5 per cent 1 m crit ma or improvement acre chieff the neddence ad severity of the pain a indicated by the patient use of mirrogly cerine It was found that the reduction in pain as not to was record that the reductions in factor as not curred almost immediately after the operatio turred amout unnormatery after the operation and a suggested that the mechanism of relief as different

from that in cases of congrains boart fallure Curther investigation of skin temperature changes, the response t dremalm before and after operation, the effect of adjensin in the production. I either nontral prima pectoria, nd the Lnown relationship bet cen the th rold, dread, and s) mysthetic et een toe to rokt, urenat, and s) impatieriet et een toe to rokt, urenat secretion might be an important factor in the cause tom of ttacks of gua bectout proce the caudisc touters from it interest and influences is traction to the raises from its reservant. lay residence of decrease the output of adrenalin, the thors post lat that the operation poral effect prep tempera the caudies necessarius time concentration to the contration of the caudies been as the caudies of t hism less seputi to adremitin

THE THE

Jimenez Cerrantes-Pinois, J The Treatment of arrez cerrantes-rinoza, J. The Trustment or Laryngest T berculosis (Tratamente de la tick de med ciral y H 5 865 Since, except

Since, except on rare managers, are gent bereulous a secondary t pulmonary tuberculous. the lare guidered and the phthistologist should ork close co operatio (Ini) pi such co-operation can the best result be obtained

The treatment indicated the stratificate manuscript and agreement in the general frestment in larengeal ( berculous based on rest pure and nourushment

The most effects treatment of both the lars great increases the pulmonin lesions is offspie theraps es peciali pocunothora. The thor believes that these must be some unfathetic near technique be tors the high and largest explain the neurl t cen the in g and intring t expans the usual bornolaterable of his ngest and polimonary lessons seriousteraut or men ugest and promounts serious and their purallel inprovement under preumothors treatment

dilition t ritheral pneumothura plombage phrenieret in thoracopia t nd trachesi mee from of medicated oil has been used Methods of tion of memorated on his overs used alethoris or general treatment belode also the mm notablished. nd the medicinal \ meron sera ad other boolog not the membranes and drugs has been advocated

The local treatment of lary ageal telecrolosis in cludes medical treatment, which is now said sair for pelliation in incurable cases the steam care actions p beatenile hiplasopteable and salkers for beatened at reconstruction research and reconstruction and property of the sales and salkers and sales are sales are sales and sales are sales are sales and sales are sales are sales are sales and sales are sales ar resons in personal propagations and make the treatment. The alterno cure though easy theoretical ly is in reality difficult. Some laryagologist here attended topiajult by amenticitate or institut it in in itemia omitani popus mastorožen sut-

attempted a consumer of performing trachesism re majuscus merre de personnos macadones. Heliotheraps ultraviolet firadiatios, mentres Heliotherapy uitravioset traduction, rossupo-leraduction, the high frequency cautery and radoarrangement, one night traductor contere non-to-active substances has been used. Henotherapy and attraviolet irradictions ha e brea employed see

requestly ad has a sledded good results.

Radical surgery has been bandoned in the tred ment of Jah unterly mer occur personant in reservery surgical procedures t percursors and one time the last goal nerves, galvanoca teritation disthermocoagulation Disthermocoagulation is now second such a fee cest solution of storms are second such a fee cest solution of storms are spropog of a 1 bea cent sopration of cooms president sources as the cent sopration of storage section. Antoniana a or Free procedure. The superior larraged here is best precached for receive through the vertical inciden described by Leichen.

ring as this is associated 1th the least hemorrhage Disthermocragulation abould not be employed for acut lesions, but may be used with care for states ty lexions such as h) perplantle degeneration of the cords, interacytemosd veget tions, tumor formation,

and lealons localized in the epiglottle Gah anocauterization is one of the performed methods of treatment. Its action is not ell under stood as it not only destroy and restorrates these but also sterilizes I a distance rendering discard per the beautiful to be the backet technique is med pars and hemorrhage are rare and mild. Gahane ca termston is indicated chieffy in cases of early t berculouls hunted t one part of the larvar, such as the rocal cords or entricula hands, and lesion limited t the epiglottis. It is do green hen the arriented or much infiltrated and show tendency toward colema and in the presence of pericloadule and the gram the trico. It tenold circulation It is contra indicated also by certain general manients. toos such as poor defense, raped pule an irrep-balling and so of eight (ood sales).

technity re necessary The cautery should be said hen it is herry red, and the treases should be burned deeply Not over one fourth of the layer should be cauterized. T. prevent the formation of synechize (reatment of contralateral ades ) are siting should be orded It II MARINE MD

Figi F A. Supraglettic Turners Methods of Treatment and Illustrative Cases. And Ob-Terminal 014, 20 1 liet een January

putient with malignant tumor of the layer ere 9 5 and J musry; 434,539 examined the M. (fine: The thorocoldes that the best proced re for the removal of rails as I tumor from the supragiottic portion of the larying is the procedure affording the most satisfac

tory view of, and the nearest approach to, the lesion Growths limited to the epiglottis can often be taken care of by diathermy and laryngeal suspension as satisfactorily as, and with less hazard than, by pharyngotomy However, only inactive, fungating, or pedunculated lesions of limited extent should be treated in this manner Pharyngotomy remains the most satisfactory means of dealing with most malignant tumors in this situation. Irradiation is a valuable adjunct to the surgical treatment of supraglottic tumors, but should rarely be used alone.

The indications and technique of the procedures of value in the treatment of these lesions are pre-

sented together with illustrative cases

# Loré, J M Stripping of the Vocal Cords Laryngoscope, 1934, 44 803

In experiments performed by the author on cats one vocal cord was removed and the other was left to serve as a control. The removed cord was examined microscopically to check it against the cord newly formed. At various intervals after the removal the larynx was examined by direct laryngoscopy to note the degree and method of healing. After complete healing had taken place, the larynx

was removed and the newly formed cords were examined microscopically and compared with the original cord removed. The findings indicated that a vocal cord will regenerate structurally. The only difference noted was that the new cord was thinner than normal, but the author beheves that if the new cord had been examined later, even this difference would not have been observed. Functionally there was no impairment in the movements of the cords, but there was some change in the voice

In a second series of experiments wedge shaped pieces or irregular portions of a cord were removed and the end-results after healing were studied. The cords so treated showed a tendency to bow because of scar-tissue formation, but to compensate for the concavity in the new cord the normal cord became

conver The end-result was a good voice

An attempt was made to straighten out bowed cords by removing subjacent tissue from the anterior and posterior thirds of the cord. In three cats, however, the result was unsuccessful

In conclusion the author reports four clinical cases in which one or both vocal cords were entirely

stripped off with satisfactory results

J THORNWELL WITHERSPOON, M D

### SURGERY OF THE NERVOUS SYSTEM

#### BRAIN AND ITS COVERDIDS GRANIAL REPUBLIC

Rousey G and Mosinger M A Study of the Intermediary Lobe of the Hypophysic (Etude du lobe internéducre de (hypophyse) Are Canes Mile 1914. 651

The discovery by Zondek and Erohn of Intermedin has awakened renewed interest in the intermediate zone of the hypophysis. The immigration of gland cells into the posterior lobe and the forms tion of cysts in this lobe present histophysiological

problems of the greatest interest

The authors studied hypophyses of adults and old persons, 6 hypophyses of children from few months to accenteen years of age, and the hypophysis of a fetus eight months of ago. They paid special attention to the hypophyseal fisture and the diverticula which occur in it in children, the acro-albuminous glands of the sutermediate lobe, and the infiltration of the posterior lube by gland cells

They describe the cells linuar the hypothyseal figure and show them a th photomerographs These cells, bether mesenchymatous, epithelial, glandular or neuro-endocrine, seem to be important physiolog scally They contain aderophile granules

The anterior wall of the hypophysical feature is renerally considered to belong to the anterior lobe. and the posterior wall t form part of the inter mediat lobe. This is true in the lower mammala but in men the cells covering the satemor and posterior walls are very m ch abke and there are evidences that both of these somes belong to the intermediate lobe. According to Haller the hypo-physical feature opens into the subsrachnoid space. but the uthors hold that the openings described by Haller were artefacts and that the enathellum of the anterior wall of the hypophyscal fusure outers into direct contact with the pas mater

There are 5 groups of diverticula of the hypophyseal fasore the superior the inferior the lateral. the a terior and the posterior. Some of the posterior di erticula become transformed into basophile cords The basophile cells of the atermedist lobe therefore come not only from the posterior all of the feature but also from the posterior diverticula. The expense diverticula and some of the lateral diverticula give clas t certain colloid cysts of the anterior lobe. The inferior diverticula bring bout infiltration of the especie of the hypophysis ad infiltration of the lower segment of the hypophysis by basophile cells. The posterior diverticula may penetrate deeply int the posterior lobe and become transformed nto either basophile cords or serous riands. Some of the lateral diverticula may

also penetrate the posterior lobe.

The slands of Enthelm or the semultareture slands of the intermediate lobe are either sank or compound tubular stands which have a market histological resemblance to the serous glands of the name mucous membrane. They result from serondary differentiation of the posterior discretical of the hypophysical fishers. Their histological sppersonce is described in detail and above wall abotamicroemphs.

There has been great does of controversy with reserved to the way in which the gland cells lovede the posterior lobe. It is uncertain whether they original from profileration or active importation It so probable that they arise to certain extrat from proliferation. The some of infiltration are also frequent sites of adenomata with basophile cells However active immigration also occurs with the proliferation. The infiltrating cells in children are of the pure basephile type. In dults, particularly old persons, there are many endnoplales. Chrome-phobe cells are rare

There is great deal of difference of opinion she as to the origin of the gland cells of the posterior lobe Some investigators hold that they originate from the anterior lobe, abereas others think that they come from the intermediate lobe. The authors have found that in children with the hypophyses! fissure intact the infiltrating cells come soldy from the basophile tracts of the intermediate lobe 1 the adult their origin is more difficult to determine because of the direct continuity between the axterior lobe and the intermediate lobe t the intercratic spaces. However the presence of endoophie orin suggests that the anterior lobe contributes I lead some of the infiltrating cells. It is the coslaopinie cells which give rue to the pigment of the posterior ACCRET GOES MOROL MD lobe.

Locks W and Jacobi, Wt The Importance of the Intracrenial Pressure in the Circulatory Conditions of the Brain to Arteriographic Visualnation (Die Bedratung des Handruckes feer in Durchstrosmangsverheeitnisse zu Gehru is artinegraphucher Dantellung) Zastrabl. J Chr. 134

The pressure conditions in the brain have as ciceptionally strong influence pon the nature of the blood circulation. Under normal conditions artsriography shows that the blood presents is the ta carotide is very accurately balanced between them. In the stanogram it is impossible to demonstrate the passage of blood from one carotid repon to the other this fact constituting evidence that the passage of blood in perceptible quantities from one carotid into the other in the brain cannot take piece normally. The large communications of the arteries

of the brain, particularly at the base of the latter, Serve essentially as reserve canals. In a normal arteriogram one sees with exactness only the vessels belonging to the region of one carotic internal to the region of the the term of the branches to the branches The connecting branches to the vertebril

When the diameters of the vessels of one side of artery on the same side are never visible the brain vary from those of the vessels of the other the prain vary from those of the vessels of the blood vessels, and discusses of the blood vessels, and errors or lues—the arteriogram in addition to the arteriogram in addition to the We then see in the arteriogram in addition to the the brain We then see in the arteriogram (in addition to the we then see in the trienogram an admitted dem-vascular diseases which have been successfully demonstrated and meurisms) the passage of blood from the vascular region of one carotid to that of the However, pathologically increased intraother moverer, parmonger the circulation of blood cranial pressure also changes the circulation of her the cramar pressure and changes the circularly when the in the bring very markedly, particularly when the processor is increased in only one half of the broing processor is increased in only one half of the broing processor. pressure is increased in only one hill of the brain, In cases of tumor of the anterior and middle Cranial fosses the controlateral anterior cerebral artery and its dividing branches (arteria pericallosa marginalis) are almost always filled on the normal ride a view temperature comments. as in cases of tumor filled on the normal side, 1 very important sign of the presence of a tumor focen the rooman even anterior and middle eranal focen the rooman even anterior and middle crimial fosse this roentgen sign anterior and muche cramming 1000 c the forterior is never missing. In cases of tumor of the Posterior cramming force is a specific to the other hand is never nussing in cases of tumor of the posterior cranial fossa it is inconstant. On the other hand, in cases of large tumors of the posterior on the fossa with extraordinarily etrong procesure on the in cases or large tumors or the posterior crimarion for the extraordinarily strong pressure on the fossal with extraordinarily second also annear in the fossal asserts also annear in the fossal asserts also annear in the fossal asserts. basal vessels, the basal vessels also appear in the roentgenogram In hydronephrosis ( hich is equally reclingenogram in a) aroneparosis absent

en developed on politi sides this sign is absent the article contains a series of roentgenograms. which support the authors' statements regarding severe arteriosclerosis and tumors. The authors' severe arteriosclerosis and tumors are also the arteriogram made in a case of present also the arterior also the arterior also the arterior also the arterior also present also the arteriogram made in a case of hydrocenhalus which the hollowed roce due to a hydrocephalus which they believed was due to a nyurocephano which they ocheved was due those tumor. The findings in the arteriogram were those cumor the mannes in the arteriogram were those of expected. In the lateral view only the vessels of the most of side were visible and in the anterior expected in the micra view only the vessels of the injected side were visible, and in the antero-Posterior view the anterior ecrebral artery vas ex posterior view the anterior enteural artery vas evaluation and therefore in the normal actly in a vertical line and therefore has a contract the contract of t Subsequent ventriculography showed a position Subsequent ventrieulography snowed a high grade hydrocephalus When arteriography was mgn grade nydrocephanes was very different from repeated, the arteriogram was very different from the arteriogram obtained before the ventriculo the arteriogram of t the arteriogram outsined pencie the Passage of graphic examination as it showed the Passage of the brond to the other through grapme examination as it showed the passage of hood from one side of the brain to the other through the arteria communicantes. It therefore proved the arteria communicantes therefore proved roentgenologically that ventriculography can basi roemigenologically that ventriculography can pasing change the circulatory conditions in the brain cally enange the circulatory conditions in the brain and it thereby explained why ventriculography carried out in the presence of pathologico anatomical changes in the brain with security calchanges in the brain with the brain with security calchanges in the brain with the brain carried out in the presence of pathologico anatomical changes in the brain with resulting abnormal presence of the pathological changes in the brain with resulting abnormal presence of the pathological changes in the brain with resulting abnormal presence of the pathological changes in the brain with resulting abnormal presence of the pathological changes in the brain with resulting abnormal presence of the pathological changes in the brain with resulting abnormal presence of the pathological changes in the brain with resulting abnormal presence of the pathological changes in the brain with resulting abnormal presence of the pathological changes in the brain with resulting abnormal presence of the pathological changes in the brain with resulting abnormal presence of the pathological changes in the brain with resulting abnormal presence of the pathological changes in the pathological changes in the brain with resulting abnormal presence of the pathological changes in t sure conditions, especially in cases of tumors, is often sure conditions, especially in cases of cultions, is often not well borne Arteriography does not change the and were norme an errography uses not enange the circulatory relationships in the brain With respect to the latter arteriography is considerably safer than ventrallography and therefore wentriculography and therefore can be carried out even when the general condition is very poor, under even when the general community year poor, and which circumstances ventriculography is contramined which circumstances are supplied to the contramination of the contramination indicated

Phillips, G Radiography in the Diagnosis of Intracrantal Tumors

1 Surg 7024 20

Roentgenographic signs of value in the diagnosis of increased intricranial pressure include (1) convolutional thinner of february of the specific triangle of increased intracranial pressure include (1) convolutional thinning or "thumbing", of the inner table of the skull, (2) separation of the sutures (particularly in children before bony union of the cuture) larly in children before bony union of the cuture. larly in children before bony union of the sutures lias taken place), and (3) distention of the pituitary fossa without crosion of the dorsum selly These changes result in a Whallesman of the calls the collections lossa without crosion of the dorsum selfe turcical changes result in a "ballooning" of the sella turcical changes result in a selfection to the color of patterns. whereas in cases of pituitary tumor the enlargement is accompanied by an irregular erosion of the dorand with a change in the contont of the chinoid

In the localization of the site of an intracranial in the localization of the site of an intracramal tumor the following signs are of value (1) calcification (2) erosion of bone and hyperostosis, (3) inton, (2) erosion of trigation (1) a lateral chift of created manipular trigation (1) a lateral chift of the created manipular trigation (1) a lateral chift of the created manipular trigation (1) a lateral chift of the created manipular trigation (1) a lateral chift of the created manipular trigation (1) a lateral chift of the created manipular trigation (1) and the created manipular trigation (1) a lateral chift of the created manipular trigation (1) a lateral chift of the created manipular trigation (1) a lateral chift of the created manipular trigation (1) a lateral chift of the created manipular trigation (1) a lateral chift of the created manipular trigation (1) a lateral chift of the created manipular trigation (1) a lateral chift of the created manipular trigation (1) a lateral chift of the created manipular trigation (1) a lateral chift of the created manipular trigation (1) a lateral chift of the created manipular trigation (1) a lateral chift of the created manipular trigation (1) a lateral chift of the created manipular trigation (1) a lateral chift of the chift of processes

tion, (2) crosion of point and hyperostosis, (s) increased meningeal irrigation, (4) a lateral shift of creased meningeal and (a) antironlogishing error the pineal gland, and (5) ventriculographic signs Colofication 15 seen in 20 per cent of intracramal tumors It is most frequent in craniophary ngeal pouch cysts, oligodendroghomata, and meningioma pouch cysis, ongoucharognomata, and memobiona ta Its presence is of some value in the prognosis as ta les presence is of some value in the prognosis as Lindicates a low degree of malignancy. The former is indicates are fairly common. The former is hyperostosis are fairly common the latter becomes the latter becomes the latter because the latter becomes the latter because the latter becomes the slightly more frequent than the latter Erosion is sugnty more request them the latter prosion is seen fairly often in meningiomata and pituitary seen many orien in meningioniaca and pita-tumors but rirely in subtentorial tumors increased meningeal irrigation or marked increase increased menungeal trigation of marked increases in the blood supply to the tumor and surrounding in the blood supply to the tumor and surrounding tissues subjects the adjacent bone to pressure producing erosion. The crosion results in deepening and during erosion the tiper surface of the adjacent on the inner surface of the ridering of the channels on the inner surface of the ridering of the channels on the inner surface of the ridering of the channels on the inner surface of the ridering of the channels on the inner surface of the ridering of the channels on the inner surface of the ridering of the channels on the inner surface of the ridering of the channels on the inner surface of the ridering of the channels on the inner surface of the ridering of the channels on the inner surface of the ridering of the channels on the inner surface of the ridering of the channels on the inner surface of the ridering of the channels on the inner surface of the ridering of the channels on the inner surface of the ridering of the channels on the inner surface of the ridering of the channels on the inner surface of the ridering of the channels on the inner surface of the ridering of the channels on the inner surface of the ridering of the ride adening of the channels on the inner surface of the widening of the appear as channels of the shall bones, which then appear as channels of the shall be forting of the shall be a shall be forting of the Saun pones, which then of the pineal gland is rarely faction. Lateral shifting of the pineal gland is rarely

taction Lateral Shifting of the pineal gland is rarely of aid in the diagnosis of brain tumors.

Air is used as a contrast medium in these mathematics of the control position of the control position of the control position. nation of the central nervous 53 stem in three methods ventriculographs, encephalography, and lumbar ous ventriculographi, encephalography, and lumbar insuffation. Lumbar insuffation consists in introinsumation Lumbar insumation consists in intro-ducing from 5 to 10 c.cm of air into the lumbar space. This procedure is much safer than ventricu-lography and encenhalography as it is followed by lography and encephalography as it is followed by iography and encephanography as it is ionowed by a less severe reaction. However, it requires consider

ably more care in the taking of the roentgenograms and considerably more experience in their interpretation As meanifeld filling of the ventricles renders the diagnosis difficult and complete filling is danger. ous, determination of the proper amount of air to introduce is of great importance

The ventricular distortion produced by an intraeranal neoplasm is usually accompanied by some displacement of the septum lucidum Roentgenograms which show apparent distortion due to filing grams which show apparent distortion due to mining defects always show the septum lucidum in the normal midline position. Whenever there is obstruction of the custom posterior to the upper and of the tipp of the custom posterior to the upper and of the tion of the system posterior to the upper end of the tion of the system posterior to the appearance in the aqueduct of Sylvius bilateral symmetrical hydrogaqueduct of Sylvius bilateral symmetrical hydrogaqueduct of Sylvius bilateral symmetrical hydrogaqueduct of Sylvius bilateral symmetrical hydrogaqueduction in the remon of one forgmen of Monroe obstacles in the remon of one forgmen of Monroe obstruction in the region of one foramen of Monroe only one ventricle is dilated

In case of bemispheric tumors, whether extra cerebral to intraorderal, the object of ventriculornity is to determine the position of the apption includes and the size, shape and position of the interest ventricies. Because of the relatively aftent tumors are supported by the contract of tumors and most frequently resulting are the parts of the nation are the prefrontal, parasagital, and postparied heophysius. Jose Witness Error, 41 D

Gross, S. W. Tumors of the Brein in Infancy: Clin ical and Pathological Study. Am. J. Der. Child 014, 45, 750.

Of the since cases of brain turnor in infants which are reviewed by the stuber clight are those of such Hydrocephalna was present in all Serms of the tumors are located in the subkerebellar region, the most common site of brain tumour in infancy. The complaints facilitied three specialymomata, one pireo hardinal studied three special monato, one pitro medificialisationata, and one embryonic tumor of neutro-cripicalisal origin not designed to the size of the contraction of the picture of the contraction of the picture of the contraction of the contrac

In discussing the diagnoss Grees says they many of the signs on which relation by faced in the study of discuss of the bettern of the section of the signs of the section of the section of the reproduction of the case of the section refers in infancy. Hence, in the case of linkants it is percently to depend more on the pistory and the infant great il behavior. Vestriculography which has proved of great video in the demonstration do localization of motor of the brain in siece life is not belieful in the case of infants.

Subdaral hematicants occur in the more frapentify in linking than his been resided and repentify in linking than his been resided and resides the cross of estargement of the head. By casttic taking of the history and difficult strokes, the condition on smally be differentiated from times of the brian. In the differentiated from times of the brian in the differentiated disposits, hydrocephalus due to other comes, notably obstruction of the appointed due to an inflammatory process or econgenital defect, continuous-ting hydrocephalus, and been of the burial, must be ruled out:

JOHN WILTHER EFFOR, M.D.

Eggston, A. A. Pathways of Infaction in Suppurstive Meningitie. A. Old Rhad & Layugi 014, 41-57

A review of 363 deaths occurring in an eye, sernose, and throat hospital in the period from 576 to 1933 revealed that 43 5 per cent of those deaths resulted from supportative intracracial discose. There were cause of mechagins, 35 cases of fram abscess, and 14 cases in which these conditions were suscitated.

The regional venous circulation is of prime hisportance in the syrred of infections to intracanual structure. This spread is usually brought about by a septic thrombers and way occur in a retrograde manner against the directalism. The primary forces may be an infection in the unitory apparatus, paracisal idinues, or cavernous sinus, or an infection following an accident or operation: Caveracon since thrombook, from hitter clause, usually results in a diffice distribution for letter in the leptomeninges through the unservas thistory wins of the brain. Inderious richlying surpcul procedures say be due to accidental breathing through of the bone or pre-existing ordered regularity. Indections arthing from the parament shows as attributed to contributy or a supportator philolism. The frequency of intercratal infection colorising frontal funnities as opposed to fix arthy in occumy-cities of the shall is believed due t carlone-cross at the posterior will of the frequency.

The pallways of infection from thesees of the temporal bone are numerous and complicated. The wincous connections of the labyrink, tympasse, cavity and petroes pyrated become lavolved and spread infection in the beans through philebith. However, unless the supportainty through repetation to the bias and the increase says that the properties of the prop

not occur

Infection may aproad through the pectitobate or pentalprinchine edits to the typ of the pertons bore. There it may cause an orietits or an outcome edits with an arternative accumulation of post if the boos is portunated boso. The pertons boos is coming to a generally recognized as a source of nonlingits. There are there assumd are more of infection from the cut to the internatial space; but were the bowy and membraneous labyritals, which offers a direct constant of the perton of the perton of the control of the perton of the perton of the accumulation of the perton of the series under the labyre of the down and (i) the extension of the perton of the perton of the perton of the the posterior creakil forces.

Some Witness Error, M.D.

Offections, H.: Persangired Mechagiomets (Duparang) tales Mennyome) 934 Lepaig Theme

Although this monograph of 143 yange with 145 metactions does only. It presentes memogramus on the basis of 3, a new observed to the rathor it reduces the attent of the arrays of the control of the con

In contrast to Cashing, Offreerous inchoics with pursus fittal meninponents only the transor found on the first and directly on the situs From the point of where of the operative technique, menliof-mats over the conwax surface of the brain, evins when they extend few millimeters into the same, are not classified as parangetral menoagements.

Of the 14 parasagettal meningiomata reviewed, to acre located in the autorior third of the sinus, 14 m the middle third, and 3 in the posterior third, and 7 were tree fally meningiomata. According to Olivecrona, at least one third of all parasagittal meningiomata are bilateral Multiple meningiomata

are very rare Olivecrona has seen only I case The diagnosis in the cases reported was based on the neurological symptoms and the findings of roentgenography and ventriculography In very numerous instances the study of the ordinary

roentgenogram revealed erosion of bone, spicula formation, massive proliferation of hone, and enlargement of the cranial veins and the furrows for the meningeal vessels—all important diagnostic findings Numerous roentgenograms are included in the article Although Olivecrona demands a strong indication for ventriculography, he apparently uses it frequently and with good results, not only for diagnosis hut also to make sure that the only for diagnosis nut also to make sure that the operative plan is correct. He emphasizes that ventriculography should he followed at once by the

operation

While Ohvecrona usually prefers rectal anæsthesia for brain surgery, he considers local anæsthesia sufficient in cases of parasagittal meningiomata the latter, however, he gives liberal doses of luminal for its sedative effect. The skull is opened in such a manner that the bone flap, which is always pe dunculated in the direction of the temples, extends beyond the midline so that hoth sides of the bilateral tumor may be reached With regard to the question of ligation and resection of the sinus Olivecrona is very reserved. He states that when the sinus is entirely compressed or filled with the tumor it may be resected without hesitation since, under such circumstances the venous outflow has been gradually re-routed from the cerebral veins On the other hand, ligation of the sinus when it is permeable leads to disturbances of the circulation in the hrain itself and, for example, in cases of tumor of the middle portion of the sinus, to disturbances of the innervation of the lower extremity whenever pos-sible Ohvecrona avoids removing tumors close to the sinus and falx As a rule he opens the dura of the convexity close to the tumor, pedunculates the tumor in the direction of the sinus or falx while progressively caring for the vessels, and then removes the tumor with its point of attachment. Only in exceptional cases does he find it sufficient to destroy the point of attachment hy diathermy As a rule he attempts to remove the tumor in one operation He states that procedures to relieve pressure, such as subtemporal decompression, should not he employed in cases of meningiona Since his adoption of the control of the cases of meningiona. tion of the practice of giving blood transfusions (from 1 up to 6) during the operation to counteract the low blood pressure caused by the considerable loss of hlood, radical removal of the tumor in one hlood transfusions in 80 per cent of his cases Drainoperation has hecome the rule age through a special opening close to the wound which has been sutured in layers is practical and not associated with danger of cerebrospinal-fluid fistula When drainage is not employed it is frequently necessary for several days to remove the

accumulation of fluid by puncture The pulse curve, the blood-pressure curve, and the chemical therap) should always be watched carefully

Of 34 patients, 15 per cent died from the intervention and 10 per cent died from recurrence In 25 per cent healing occurred with a defect, and in

50 per cent complete healing resulted (LEHUAN) CLARENCE C REED, M D

Krabbe, K. H. Facial and Meningeal Angiomatosis Associated with Calcifications of the Brain Cortex A Clinical and Anatomopathological Contribution Arch Aeurol & Psychial, 1934,

The clinical association of angiomata of the face with angiomatous modifications of the pia mater and cortical calcifications is described as representing a There is almost always an associated epilepsy, and frequently the patient is considerahly overweight Other frequent symptoms are clinical entity mental dehility and a slight spastic hemiplegia on the side opposite the facial angioma X-ray examination reveals a characteristic shadow within the skull—a distinct sinuous shadow presenting exactly the shape of the surface of the hrain and showing the gyrı and sulci, often with double contours, shadow is most often localized in the occipital lobe The first report of a case to he published was that

In 1921, Wissing described a roentgenographic shadow in the right occipital lobe in an unpublished report Another case report was of Weber in 1922. published by Dimitri in 1923 Since then several reports have appeared Cases of massive calcifications associated with angiomata of the brain have been recorded hut only a few have shown the characteristic sinuous shadows corresponding to the brain surface which were originally described hy Weber and Dimitri In the previously reported cases of the latter type histological examination was impossible as

Krahbe reports five cases, in one of which a none of the patients died pathological examination was made. In four of the five the lesion was wholly or mainly in the occipital lobe. In the fifth it was in the parietal lohe

The histological examination showed that the shadow was due to calcification of the outer layers of the cortex, not of the pia mater, which seemed to he abundantly vascularized but not truly angiomatous The calcification consisted of numerous small, mostly microscopic, granules of calcium salts, localized in the second and third layers of the cortex The nerve tissue in these layers had been in great part destroyed and replaced hy fibrillar neuroglia The occupital lobe was shrunken and sclerotic The rest of the hrain was apparently normal except for very slight changes in certain areas

The author believes that the changes in the hrain are probably not secondary to angiomata of the pia mater, hut related to a more generalized malformation of the organism This consists in the formation of angiomata of the face, slight angiomatous changes of the pia mater, and aplasia of the occipital lohe with sclerosis and calcification of the aplastic part. The malformations probably originate in letal life

The only therapy indicated is symptomatic treat ment for the eplicptic sciences and mental hydene

for the mental defects.

The name Weber Dimitri's disease is suggested for the condition if it is proved to be a separate entity EDWARD & PLATE, M.D.

Fanton, R. A.: Diagnostic Factors Concerning Harpes Zoster Oticus. J Am H Att CEU, 443

It now seems generally agreed that the infectious seemt in heroes poster is a filtrable virus which caters the body through the nose or nasopharyan instead of the akin. This virus lovolves the nerves and leads to an ascending or a descending infectious process with definite scrum reactions and antibody formation.

Involvement of the eighth nerve is characterized by vesicle formation which may be limited to the posterior all of the external auditory meatus or manifested by only one or two small lesions on the conche or mestald, pain which occusionally cesses when the verticles dry up, but usually lests for weeks and sometimes for months enlargement of a pre-earlichlar lymph node and occusionally of masterd, pervicul, and parould lymph nodes, loss of tactile scanbility and sometimes vencies on the anterior two thirds of the tongue, the auterior rellar of the fauces, or the soft palets of the same side Facial paralysis may supervene four or five day later. In rure instances it occurs comesdentally with be procedure, the eruption. The usual delay of several days in the development of motor eruptoms supports the generally accepted theory that such symptoms are due to secondary pressure on, and militra tion of motor nerves passing through the bony canala, forement, or dural envelopes

Vestibular and ditory symptoms, moderate vertico, slight deafness, and burning police may precede the eruption by several days or develop simul-The distinces, which is of a teneously with it transitory character, is usually more annoying than the disturbances of hearing. Various combinations of nerve involvement have been recorded, especially involvement of the eighth crantal nerve with other

CTROOS SALVOS The following types of berpes somer oriens, vary ing in severity are recognized / ) a very mild seper fical type simulating ecrema, (s) a very severe type with meadageal symptoms, (3) a type with dermal manifestations resembling crystpeles and followed by facial paley and (4) a type with cochlear vestibufor cheturbances which may be very severe and is followed by facial paralysis in about as per cent of

CHARGE . The condition prest be differentiated from periesteal swelling due to mantachtia, ordensa from inrencalous, occurse, crystpeles, fungued occurse of the mental spithetum, intramanial hemorrhage and thrombons, encephalitis, menungitis, and intracranial turnous and abscusers

The treatment indicated is largely symptometic although serum from cured cases is stated t rehere or shorten the duration of the posthernetic nein Shock therapy with foreign proteins and gutohemotherapy may be of value. Ultraviolet brachstion, local drying treatment, and cocalebation of the aphenographics region are recommended

June Wilmin Extend M D

#### SPINAL CORD AND ITS COVERINGS

Borchardt, M.: Kyphoscaliosis and the School Cord (Kyphoscobow and Roschmark), School and Webster 1014. 612

Symptoms of traserverse lexion of the spinal card which in the course of few works lead to spartle paraplagis of the legs, sensory disturbances, and occasionally also to biedder and rectal disturbances occur more frequently in congenital accions than in rachitic scotlosis. They are most common is the second deep de of file, the period of most rapid growth The neurological medium above considerable dif foreners from other spantl-cord condulors. Charextenditie of late acohotic talury is the rapid development of severe sensory disturbances of all types. In contrast to the transverse myeliths of spondylitis, the individual innerious are not completely destroved. The hypersensitive sone lound in cases of tumor is absent. At operation on young persons with lat acciliate injuries, an abnormal rension of the dura is always found. After includes of the dura, the cord protrudes and as - rule expost be astured evalu. Nevertheless, the operative results are usually good. If hen the dars is sutured under tension the condition becomes worse

Borthardt has observed three cases. The first was that of an old women in whom sound-cord symptoms associated with scollouis were due to an intradural, extramedullary true manal cord targor. Operative removal of the tumor was followed by recovery

In the second case, that of a fourteen-wear-old boy with rechibe scobous, severs symptoms of soluticord layery began without apparent cause during the period of most arrive growth. Hyperasthesis and hyperalgesis were found on the right side from the accord curves) to the fourth dorsal vertebre and from the tenth dorsal to the fifth sacral vertebras, and on the left aide from the fourth dorsal to the tenth dorsal vertebre. Repeated lumbs punctures were followed by cure. On the base of the chaical picture the condition was believed to be circumscribed aseptic serves menagins in the cervical re-

The third case was that of a man forty years old very marked hyphoscologis Severe wbo ≥44 symptoms of compression myelitis appeared siddenly On myelograpine examination the imremained at the point of greatest curvature. Operabon was refused at first, but permitted later. It showed the canal to be greatly narro ed at the sper of the correcture and the dura to be definitely punched The dura was not under tension or pathologically

adherent to the spinal cord. After it was opened, it could be sutured easily without tension Postoperative healing was uneventful Two months later the patient died of decubitus, cystopyelius, and bron chopneumonia Autopsy showed the cause of the compression my elitis to be a localized ostettis fibrosa of the Recklinghausen type with cysts and brown tumors of the ninth and tenth dorsal vertebrae, deamous of the minus and compression of the struction of these vertebræ, and compression of the

Borchardt agrees with Jaroschy that the transverse myelitis in severe scoliosis is due to a disturbverse myenus in severe sounds is one to a usual to ance of the blood and lymph circulation incident to the scolosis As the result of venous stasis and swellcord ing of the cord, the canal becomes narrowed and ing of the cord, the canal becomes narrowed and drainage is obstructed. The frequent narrowing of the canal at the vertex of the curvature and the torsion of the dural tube are also damaging. In cases with mild symptoms of irritation, rest in bed or the with this symptoms of a fination, test in oed of the wearing of a corset should be prescribed. In more advanced asset Character to the control of the contro advanced cases Glisson's hammock is indicated and if there is no improvement after two months laminec (TOBLER) LEO A JUHNKE, MD

Salman, A.S. Chordotomy and Its Late Results tomy should be done

The therapy of pain is one of the most interesting Attempts have been made to relieve pain by transverse myelotomy, but the operations which have been found of most pracproblems of neurosurgery the operations which have been found of most practical value for this purpose are performed on the

Tollowing the studies of Brown-Séquard and sensory tracts of the spinal cord Gowers on the physiology of these tracts, the first

chordotomy was performed by Martin in 1911 From the literature since that time the author has collected 720 cases in which this operation was per-

At first, chordotomy was done only for pathological processes of the lower extremity as surgeons feared lesions of the nerves of respiration in 1927 Forster performed a unlateral chordotomy formed and in 1931 Stookey performed a bilateral chordotand in 1931 Showey performed a unacetal chorder omy at the level of the second and third cervical segments without causing disturbances Rotmann performed the operation in cases of inoperable tumors and Schuelter performed it in cases of tabetic muss and schuence performed it in cases of labetic crises. During recent years the indications have been extended to include all pathological postpological been extended to include all pathological processes causing pain

The author performed fourteen chordotomies on thirteen patients The indications were inoperable carcinoma of pelvic and abdominal organs, sarcoma of the pelvic bones, traumatic injuries of the spine, post-amputation pains, trophic ulcers, and syring

The operation was done under ether anæsthesia in nine cases and under local anæsthesia in four incision of the anterolateral tract was 3 mm deep gomyelia By unlateral chordotoms, total analgesia was obtained in ten cases. To one case analgesia of only by unnateral choruotom), total analgesia of only obtained in ten cases. In one case, analgesia of only the foot, and in the last case no analgesia was obtained In the cases in which bilateral chordotomy was done the evaluation of the results was very The failure of some interventions can be amicult the famile of some meetvencous can be explained by anatomical variations in the anterographic transfer and the contract of the contrac lateral tract and also, as suggested by Forster and Hagel, by the fact that this tract may become in-

As a rule thermal sensibility is also lost in the corporated in the posterolateral tract area of analgesia According to Robineau, this is an and or analysis According to Roumsau, and B an indication that the operation was performed cor-The other forms of sensibility are not affected In some of the author's cases the level of the anæsthesia changed after the operation In one case it was two segments lower fifteen days after In some cases sensibility was restored, but was weaker than before the operation Among the possible complications following chordotomy is paralysis of several muscles from injury of the pyramidal tract This occurred in three of the author's cases In nine of the author's cases there were disturbances of the urinary tract Chief among

Microscopic examination of the spinal cord after these was retention of urine chordotomy show ed partial necrosis and other lesions of the fibers attributable to the operation changes are responsible for the high postoperative mortality Other causes of postoperative death are

Of the author's patients, one died of acute meningitis twelve days after the operation One patient shock and infection with sarcoma was still alive fifteen months after the operation, but another died seven months after the operation from multiple metastases with carcinoma died after from one to five months In one case of post-amputation pains the results was satisfactory and stable, but in another the symptoms recurred six months after the operation and in a third the late results were poor

### SURGERY OF THE CHEST

#### CHIEST WALL AND REPART

Levis, D and Guerhickter C. Fr Gyprogramstle, Virginal Hypertrophy and Fibro-Adenomata of the Breast Ass Surg 934, on 770

Careful histological studies of the breast timues in cases of gynecomastia, virginal hypertrophy and abro-adenous of the breast revealed definit and lantles of structure and suggested that these coodstions may have a common etiological factor. All seem to be definitely related to the everproduction of the female sex bormone certrin and t conditions or times of his during which there is constant atoms-

lation by this bormone

Gynecomastia, or abnormal enlargement of the male mammary gland, is due to problemation of the ducts and a increase in penductal tissue, and has been observed in many cases of chorio-epitheliome and teratoms of the texticle. In most of those cases the urine was found to contain both Prolen R and centrin. Gynecomestis is often associated also with bergesphrodism and recordsbermaphrodism, and has been lound in cases of tumor of the hypophysis and of the suprarenal glands it on he produced experimentally in monkeys by the intection of solumone of varying amounts of centra

Virginal hypertrophy, histologically similar to gypecomustic, scenn t be definitely related t the prepaberty period, when there is normally contingroup recoduction of small amounts of owirin for from three to five years before the omat of menstruction. It is pourently the general response of the breasts t such stimulation. The local response takes the form of filero-admonata which are frequently associated a the lesser degree of virginal hypertrophy and present changes very smiller his-

tolorically t those of the two other conditions. Fibro-adenomata are relatively common during the sex life of women. Samificant features in the series of 480 cases studied by the utbors ere

The amoration of solitary films admorata with diffuse enlargement of the breast (virginal

hypertrophy) g. The slow prolonged growth, averaging from

three t four years, and the tendency toward involvement of a secretion of the breast or the forms tion of multiple terrors The tendency of the tumors to poear during

puberty or preparacy 4 The similarity of the histological charges to

those observed in gynecomastia

Most of the patients were between twenty and twenty five years of age. About one-third of the tumors were tender. The tumors increase in size rarely during menstrustion, but not rafrequently dering pregnancy Early tumors are of a loose

mymmatom structure while those of longer datation are more solidly fibrous. Afteroscopic studies so great that fibro denoms formation is essentially an exaggrated puberty hypertrophy In most thro admomats no acrel formation is found and the histological charges reacrable those seen in gypecomastus Determination of the amount of cestrin in one such tumor revealed nearly so times as wruch as is obtained from the ovaries of the sow. a finding which suggests that the timue is capable of holding or concentrating the hormone. The fact that the turner formation begins or increases during poberty or the latter part of prevnancy when the amounts of cestrin are increasing, is also reserved as elenificani. I v h. Termaner, M D.

Geschickter C. F., Lewis, D., and thatmen, C. G.: Turners of the Bresst Related to the Clercia Hormone, Am J Cases 014.

Graciomastia virginal benetteenhy and filmadenous of the breast are quite smaller pathologicelly. They all show periductal and duct-strossa hypertrophy and hyperplasia of the epithelial haing and begin in the pre-puberty period. They are cossidered by the thors as variations occurring in response to the overien hormone, gestria

Gynecomastle was produced to make proaker, by the injection of from soon to soon ret worts of

and a Prolonged and uninterrepred stimulation by centrin is more effective than mumber of small re peated doses.

During the pre-potenty stage (from the teath t constant atherolation by numerous opening and 1 corne follocies to the overy which secrets tests of therin ad frequently presents recoulsr thackened

Arens

Most fibro adenomat have their onset during the some period, though not noted dilincally statul later They show the same hypertrophy of the stress without acts forms ton. If they grow rapidly there ss temally problemation of loose embryonic con nective times surrounding the epithelial liming, the so-called intracanalicular my xoma

Some fibro-adenomat develop later in life. Their formation may begin dan a pregnancy or their growth may be stimulated by pregnancy during a lifely condition menstrustion as because and the concestration of centra is increased. They have never been known to begue after the menopause. Once formed, they do not myohite under the infuence of menstrustate

On analyzing fabro-sdenoma, Geschickter lound that I contained forty five times as much cestim as the normal hog overy It is evident, therefore, that

fibro-adenomata have a marked ability to concentrate the hormone.

Cystic disease of the breast is most common in childless women during the period of life when the level of ovarian hormones changes repeatedly with each menstrual cycle. It shows hypertrophic changes in the duct epithelium similar to those occurring in fibro-adenomata. It may appear also in fibro-adenomata of long standing.

Virginal hypertrophy results from an abnormally high estrin content of the blood. Fibro-adenoma is due to increased amounts of estrin in the blood acting on a hypersusceptible tissue which has the capacity to concentrate the hormones at the site at which the tumor develops. In cystic disease the breast is subject to similar hyper-stimulation by estrin, but the effect, which is not so pronounced, is transient, recurring with each menstrual cycle, and is complicated or diminished in involutional changes accompanying each mensturation.

During active sex life the tendency of increased cestrin stimulation is to cause subinvolution and cvst formation. As the menopause is approached the involution changes are exaggerated and spontaneous

cure of cystic disease may result

Experimentally, Geschickter has been able to produce microscopic changes resembling cystic disease, but no cysts, by repeated injections of æstrin made at intervals

Fibrosarcomata are tumors showing all grades of malignancy, usually arising from pre existing fibroadenomata, and most always appearing at the menopause. At the menopause there is a marked rise in the secretory activity of the anterior lobe of the pituitary gland. This suggests a synergistic relation between the hormone of the anterior lobe of the pituitary gland and cestrin.

In the diagnosis of a doubtful tumor, determina tion of the estrin level of the blood (Frank method) may be of value Softening of gynecomastia has been obtained by repeated injections of prolactin, the milk producing hormone Geschickter hopes for comparable results in fibro-adenomata

HARRY C SALTZSTEIN, M D

# Overholt, R. H., and Eckerson, E. B. The Treatment of Cancer of the Breast and the Results of Operation New England J. Med., 1934, 211-703

The authors present an analysis of 719 cases of lesions of the mammary gland which were admitted to the Lahey Clinic in the period from 1923 to 1933. They emphasize the importance of very early diagnosis of cancerous and precancerous growths by routine early removal and microscopic examination of all mammary tumors and lumps. They have found that studies of front and profile photographs of breasts are of material aid in the recognition of early masses. The relation of palpable axillary lymph nodes to operability is discussed. The authors have decided that patients showing no involvement beyond the breast and axilla should be treated by radical mastectomy.

In chronic cystic mastitis they excise any discrete palpable tumor and examine it histologically. In 12 per cent of the cases of this condition in their series there was evidence of intraductal hyperplasia, which is regarded as a precancerous condition.

Simple mastectomy is advised for all cases of sanguinous discharge from the nipple in which an intraductal papilloma cannot be demonstrated. Thirty per cent of patients with a bloody discharge have been found to have carcinoma.

In the authors' cases all benign tumors and cysts are excised and examined histologically

Routine postoperative irradiation is employed in all cases of breast cancer, and metastases and recurrences are heavily irradiated.

The various breast lesions in the cases reviewed are classified with regard to type and frequency, and the results obtained at the end of five years in 62 cases in which operation was performed for carcinoma are tabulated and discussed. The authors find no striking difference in the degree of malignancy of growths in young and older patients.

JAY E TREMAINE, M D

# Fox, S L Sarcoma of the Breast 4nn Surg, 1934,

The author suggests a classification of mammary sarcomata based on histological and anatomical features which can be used by the surgeon as well as the pathologist. He divides the tumors into the following four main groups fibrosarcoma, neurogenic sarcoma, lymphoid and myeloid sarcoma, and non-indigenous tumors.

Fibrosarcoma may originate from the interlobar connective tissue Sarcomata of such origin are similar to those seen in the fascial sheaths of the skeletal muscles of the body They are solid tumors which may undergo cystic degeneration and are often encapsulated Fibrosarcomata of another type are derived from pre-existing fibro adenomata Histologically these tumors resemble closely sarcomata of the fascial type except that they show numerous groups of acini and lobules Because of their benign origin many of them are encapsulated. The third and most common type of fibrosarcoma is the serocystic sarcoma of Brodie which is secondary to an intracanalicular fibromyzoma In this tumor there is a proliferation of the intralobular connective tissue which projects in papilla-like masses into the ducts, compressing the latter into narrow epithelial strands

The sheaths of nerves entering the breast may give rise to sarcomata of a very malignant type Tumors of such origin usually grow rapidly. They are very invasive, destroying the breast as they advance. The melanotic sarcoma and the perineural fibrosarcoma belong to this group.

Lymphoid and myeloid sarcomata arise about lymphatic plexuses and aggregations of lymphocytes within the breast or about outlying glands. The myeloid sarcomata consist of round cells which have more cytoplasm and larger nuclei and are lighter

staining than those of surcomata of the lymphold type. These re undoubtedly related to similar tumors of bone-marrow ought

Among the author's cases of mixed and nonindigenous temors of the breast there ere in of glant-cell immor one of oscogenic sarroms and one of liposarroms. The perithelial anglosarroms and

In discussing the disposite the author was that, except in cases of lymphoids and my ladds storage traces of lymphoid and my ladds storage income. Especially in the bears of settentials to lymph glasds, large brilly tumous are very likely to be stremment. In the subbor's secte of cases there were forty to of discussional, serven each of secret with the contraction of the subbor's serven and for a several discussion tomory.

Irradiation offer lettle encept in case of lymphosis and my cloid carcoma which are endinemented. However, pre-operative irradiation is advocated because it is impossible to distinguish the redescendance form the rationesstatist forms. If the rento-beamer reduced in this very requiry under structured in the restoration about he associated

Operation is the treatment of choice. Since extension occurs to the pectoral facels rather them to the affiliary glands, both pectoral muscles and facels about the removed. Auditary disaction may be omitted. Enablestion or excision should not be performed even if the tensor is encapsulated as extension of a sarroma frequently occurs along the blood vessels through the causels.

In general, mercous of the breast has better proposes than carcinome. Sacroms secondary to a beings tumor has a better prognosis than prisary seconds, and threeseroms a better proposes than neurogenic sercoms. In case of threeseroms the chances of cure are slightly higher for three-demons

than for sarcoma of the fascial type.

East O Latticks, M D

#### TRACHEA, LUNGS, AND PLEURA

Foster J M J and Prey D The Treatment of Acute Treatmentic Hamothorax. Ann. 5#2 934, 00 488

The authors present a conservative method of treating acet traumatic hemotherus by which aptic consplications are worded and the time of hospitalization is decreased by half. The procedure consists in the simultaneous aspiration of the blood and the introduction of enough air to raise the lates pleasar to +7 cm. of acts or above. The asparations are begun immediately and repeated and all of the blood has been removed and replaced by air. Their number and frequency are determined by the finding of rountpensological examination for

fluid and further bleedige The treatment described is of value is all cases except those to which a large blood vessel has been severed with resulting latal acute examplination In cases in which only smaller vessels have been labored, it prevents further hemorrhage and the blood lost may be re-injected. Collapse of the hear is maintained t degree sufficient to allow bealing of the inferred histy times. The others re-extend the lung gradually. In the case recorded in the article re-expansion of the leag was begun on the fifth day and was complete within three weeks. The namest as decharged from the hospital thirteen days after his admission MINUS FORWARDES, M D

#### Harn, H. J. Organic Foreign Bodies in the Bronchi The Rection of Lung These in Rabbin. Arch Collegued 934, so 140

The number introduced various solid organic torigo bodes into the branch of rabbits and after certain periods of time kindt the salmats and canning the ring times. The gross presence of the hard varied considerable according to the objects kindton control and the kingth of time the broaches was observed at all the kingth of time the broaches was observed to the part of the pa

Histological examination of it macro aboved that the response was proprisers of a tomested of exadition and prolifers ion occurring simultaneously. The exaditive section consisted of the powney out of large, swellen, irritated septel cells mate the posture of the powney and the powney of the powney of the powney powney of the pow

as inseted to the immediate neighborhood of the larger broachs and extended outward. The rapidity of this expension was apparently in direct proportion to the degree of the imitation.

The secondary change in the lung was all are localized, never a local produced in Course on the third and fourth days in lungs containing the most installed foreign bodes. The vascula change was understily that of an obliterating attraction as configuration of an obliterating attraction as configuration. The course of the content of the content of the conduction of the local results trought on, secretaively infarction and focal necrous of the pulsassars paracachysis.

Frank capillary hemorrhage in the alveolar wall and, to some extent, hemorrhage in the alveoli was found in lungs containing pop-corn, the bark of the eucalyptus tree, watermelon, grapefruit, and orange seeds, and peanuts

Similar changes were present in the opposite lung

which contained no foreign body

In the author's opinion, the primary cause of drowned lung is a too rapid and excessive outpouring of mucus and exudate in the presence of a decrease in, or loss of, the cough reflex

EARL O LATIMER, VI D

Sergent, E, and Mamou, H Cases of Pulmonary and Thoracic Mycosis (A propos de quelques cas de mycoses pulmonaires et thoraciques) Presse méd, Par, 1934, 42 1497

The clinical manifestations of pulmonary my cosis are varied and numerous and may suggest such conditions as tuherculosis, syphilis, cancer, abscess and suppurating cyst. In a case of aspergillosis reported by the authors with Gaucher and considered originally to be uncomplicated, the presence of a complicating tuherculosis was eventually discovered. To rule out complicating infections in cases of my cosis all resources must be employed including inoculation of a guinea pig to eliminate tuherculosis. Various cutaneous and serological reactions have been devised, but their interpretation is often difficult. In some cases it is necessary to rely on clinical observations and the response to treatment with iodides.

The first case reported by the authors was that of a previously well woman thirty-two years old who sought treatment for severe hamontysis and a purulent expectoration A roentgenogram showed in the left para hilus region a cavity containing air This was believed to be of tuherculous and fluid origin, hut no hacilli were found Artificial pneumothorax was without benefit. When the patient was first seen by the authors two years later the thoracic condition was unchanged and there was a history of the appearance of lesions on the lower extremities several months previously The lesions consisted of cutaneous nodules which, when incised, yielded a gummy exudate Bacteriological examination of a lesion which still remained on one foot over the tendon of Achilles was negative. The Wassermann test was likewise negative. A my cotic infection heing suspected, intensive iodide treatment was This effected a complete cure which was given maintained for three years Recently there was a relapse which was apparently favored by secondary infection and permanent anatomical changes in the Because of the skin lesions the etiological agent was helieved to he the sporatrix

The author's second case was that of a student who presented a florid skin, a generalized lymphadenopathy, and an extremely large spleen. The lymph nodes were small, firm, and painless. Physical examination was otherwise entirely negative and there was nothing in the history to explain the

splenomegaly Because of the huge proportions of the spleen, splenectomy was done weighed 2 Lgm On microscopic examination it showed a sclerosis with Gandy-Gamna nodules which are regarded by some as my celial formations After an interval of perfect health the patient began losing weight and appetite and developed night sweats, a cough, and an afternoon fever tubercle hacilli could be demonstrated in the spu-Roentgenograms showed evidence of consolidation in the hase of the right lung. From the sputum, hlastomycetes were isolated and identified hy culture Intensive iodine therapy resulted in clinical and rocatgenological improvement approaching curc

The authors report also two cases of thoracic (non-pulmonary) actinomycosis which for a time had been treated unsuccessfully as tuherculosis and in which iodine therapy led to rapid cure

ALBERT T DE GROAT, M.D.

Debré, R, and Gilbrin, E Gas Cysts of the Lung and Bronchiectasis (Sur les Lystes gazeux du poumon et les bronchiectasies) Presse mtd, Par, 1934, 42 1113

Gas cysts of the lung were for a long time regarded as curiosities of no general clinical or pathological interest, hut recent studies of such cysts have added much to our knowledge of the common disease, bronchiectasis

The essential clinical feature of gas cysts is dyspnot which occurs in paroxysms during the first few weeks, months, or years of life and less commonly at an advanced age The younger the patient the more violent are the attacks Previous to the onset, the patient presents the picture of good health, as is often the case in the presence of congenital anomalies in other parts of the hody The latency of congenital anomalies is explained by their slow evolution. The symptoms caused by gas cysts of the lungs call attention immediately to the thorax and examination reveals physical signs which are identical with those of pneumothorax, namely, hyperresonance, absence of breath sounds, and displacement of the mediastinum The roentgenogram discloses the nature of the condition, showing absence of collapse of the lung and the presence of rounded clear areas surrounded by dark bands which give them a rounded or polycystic outline The clear areas are traversed by the shadows of vessels or cyst walls

The evolution of the cysts is variable as is indicated by the variations in the clinical picture. Frequently the cysts remain stationary and the symptoms are more or less latent. Again, the cysts may enlarge progressively, causing disturbances eventually incompatible with life. When they are of large size from the beginning, the result is stillbirth or very short survival. Other possibilities are rupture into a large bronchus, the fusion of several cysts, and suppuration.

The structure of the walls of the cysts reveals their origin, all of the elements constituting the normal

broaches being found. The formation of the powelappears to be brought about by a hypoplatia of the cleate fisser and, more supertast, a hypoplatia of the breachial necess with the formation of verstable and in throachial bad instead of the already a kich would develop under pormal conditions. Angels deformities occur is the form of telementases.

According to the authors theory of the relation of bronchiectasis to gas cysts, an individual with a latent or fraste form of coatic disease of the lanes. develops a passamonitie which precintates the armptoms and the physical sizes of bronchectasis anthors believe that only in this way is it possible to explain the large bronchiectatic cavities which de velop in children after such brief diseases as scarlet fever and influence, and their frequency in the absence of a history of serious pulmonary disease. As sequel to chronic broughlits the disease is rure According to the authors theory the consenttal cysts which are often incompatible with life are monstrong forms of broachinlectasis which is the busis of the clinically well-known and not infrequent bron-AUMORT F De GROAT, M D chlectaux

Rienhoff, F. Jr., and Brayles, E. b. The Surgical Treatment of Carcinoma of the Bronchi and Lungs. J Am H Am. 934, 93

The authors describe a technique they have developed for possumementury and report two cases which twis the disconsisted. Before the operation is perferent, artificial postumetoner is minden for two purposes (z) to render the patient armenious to involute the control of investing with only one time, and (z) to consider it investings with only one time, and (z) to consider in the altered conditions of the control of the con

the operation The billion of the long at provided through an incision in the astronor thorston will used is consistent on the control of the state of the control of the state of the control of the control of the control of the control in the cont

The bronchus is closed by catting the cardings ring at several ponts in its circumference and exter ing the nuccess and wall separately. The authors have found that cartengation of the bronchus is api to excess abuging

The authors between that thoracoptasty is ennexasary. They state that preservation of the normal theoroc cage is an important factor as the compessatory restitution. The thoracic cage serves somewhat as a nachor t which the heart and residential argattached by Strous basis. Part of the remaining pneumothorax cavity becomes filled by the gradual compensatory expension of the remaining lung and the rest becomes gradually obliterated by the forms than of multiple filtrous bands

East O Lamas, M D

Monod, R. and Densirions 3: Strelle-Stage Lubertomy with Open Plears (Le lobritonin, rapleys hier, on an temps) Bull of setse Sec and de three 0.14 to 0.05.

The authors prefer lob-clossy to the cantery procuractiony of Graham, the fragmentary prementiony of Baumauriner and the cincoparamectomy of Caquelot as the latter procedures limit replacetions of the thorax, are often incomplete and are personally insufficient when the lesions are mail-

tyles or descentiated as in broatfactuate. In describing the technique of belocitates they discuss three major problems, who the doesne of the perfict, the treatment of the plent, and the oblition than a first similar problems, who do the remaining as vity. They trave the expentional and official developments in the solution of contract and official developments in the solution of certificial developments of the development of

fore echools. They report four cases in which lobectomy was done. The of the patients dued. The autopsy findings and the cause of death in the fatal cases are discussed.

Following the case reports the a thora referbriefly to their experimental studies which have proved the leasibility of lobectomy and even of complete pneumortomy.

The report is profusely illustrated and a discussed by Proust, Maner, and Moure

NAMES A WOMACE, M D

Petrin, G.1 The Problem of Bersre Cerebral Syntatoms After Operations on the Pietra et Lang (Les Faqu adverr semisted dynapten les Operationes as Mours oder Lange). Into chemp. Send. 944-74.

Petren reports three cases in which cerebral symptions developed after an operation for empyems and pulmenary impossion, and discusses arterial air emboh as a cannative farther

In his first case the symptoms derivinged billioning as strengt at the localization of a lamp because part of the configuration of the second properties with second and been catalizated by the small retained On withdrawal of the needle, the patient randomized bloods dil, the pulsa because wast, and there as a temporary loss of concressences. Homelpean and formal purpless these developed on the left add and speech as a impained Latter convolution control and trenty howes where the observations control and trenty howes there the observation of a small control and the second scale is, in the right lower lobe, and beasel empress. It these par Estalization of the beaus pickeds on explanation of the several correlation proposes.

The second case was one of empyema Following drainage, the patient became pale, perspired freely, developed a hemiplegia on the right side, and became blind, but recovery resulted after several hours The eve grounds were found normal Examination of the visual fields disclosed a left homony mous hemianopsia in the lower quadrants

In the third case there was an emprema cavity with multiple bronchial fistule and bands and strands visual fields became normal of usue Following ligation and severance of the bands, the pruent lost consciousness, the pupils following the property of the pupils failed to react, and there was a change in the respiration After closure of the wound there was loss of vision Examination of the eyes five hours later revealed diminution of light perception, normal eye grounds, and a left homony mous hemianopsia Subsequently improvement occurred

These phenomena have been attributed to pleural reflex, pleural shock, epileps), and eclampsia When Torlanini, in the nineteenth century, advocated artificial pneumothorax for the treatment of pulmonary tuberculosis similar complications were reported Brauer concluded that sudden death assocated with such phenomena is due to air embolism According to others reporting fatal cases with these symptoms, changes have been found in the brain

On the basis of his own cases and the cases re when death did not result immediately ported in the literature the author concludes that air embolism is the most probable cause of the cerebral Symptoms In 1921 Schlapper expressed the opinion symptoms in 1921 Schnapper expressed the opinion that indurated lung tissue lends itself to this accident as the veins in fibrotic tissue stand open because of the adjacent scar tissue WILLARD VAN HAZEL, M.D.

# SURGERY OF THE ABDOMEN

# ABDOMINAL WALL AND PERITONEUM

Pampari, D : A Case of Multiple Ventral HerniaSpieger Hernia with a Concomicne
Strangulated Umbilding Hernia (Sod us case of ourange on the Continues of February (ou in or case our case vertically against delta Spirale del case our case continues are consecuently are

Pampari reviews the literature Opinions differ as to the relative importance of the various caneative factors became of the rarity of the condition (only eighty-eight cases have been the condition (only eighty-eight case have some reported) and occurse most of our knowledge regarding hernia of this type is based on observations of the type is based on observations. made t operation. The majority of those reporting matra Coperation And inspectly of these reporting such bernic have attributed great importance to the vascular formulas in Spiegal's line and an anomaly of the parforming branch of the interior enjoyants of the According to others, the laconne at the point of union of the muscule and poneurotic fibers of the reaspersalls are of greater importance. According a third group, the chief factor is the dissociating action on the aponearotic fibers of accumulations

The author's case is of special interest because of the author's case in we aprecial interests because of the association of an extremely large ambificult the amount and here being exception home. All of the bernie were irreducible. The petient was woman fully two years of age. The issue unballed bernis. and peen between for many horse we observed occurs more than a meter of strangulated bowel in the umbilical sac was resected

According to the operative, autopsy, and histo-logical fastings, the abdomen was divided into deep and meet reduced cavity—the true abdominal ceasity and a much passe, erocapted supcoreneous portion representing the bernie. The former contained the disodenous, the first part of the sleam and the less half of the large intextine. The rost of and one had excaped through the unfalled ring and the foramine in the report of Spicer fine on the right side. The first of the ventral house conane right side. And since or the ventral section con-tained, loop of small intentine, the second, the last part of the learn and the cecum and the third, portion of the according colon. Apparently one portion or the ascenting through vascular opening, white some occurred through vancour opening works formation of the two others was favored by dissociextension of the ponegrotic fibers or by congenited action of the propertion of the propertioned fat is the most important factor to the formation of such bornie as in its gradual growth it enlarges the was norme so in its granted growth in thinks we have color for among and exercises. Separating action on

Afferoscopic examination of the belominal wall showed advanced muscular trophy with fibroes replacement and marked fatty infiltration

The article contains illustrations and is followed by bibliography M. E Money, M D

Barrisco, N. Octult Epitastric Herria (Sur la herme épagastrique octulta) Les és chic Par 934 & 539

By occult epigastric hernia the author means the small herms which occur in the midline between the single increase which occas in the single felt only the single increase of the single i with difficulty or not at all, and are often the came of abdominal symptoms out of proportion to their size He achous creates cross any major for to men are executive at achouse our or banker not to men are He reports caves came what major gastro-mercons distributions which were completely cared by exclusion of the bernial sec followed by repair of the defect som of these cases the symptoms were it first an are or these cases the symposium were than a sambed the order of the stomach in one, to carefaons aschuse t mer or meriorised more, to carrievene of the stomach in one, to ppendicitie and in one, to intentinal obstruction. In four there was savers interaring contraction in four there was severe has making its only five was the bessis recognized priors operation although it was sought for carefully in all. In mose of them was any pathological change

to the gratto attended tract at lateratural or and The hernic varied from the size of a pea to that of an ollya. Apparently none of them was a so-called propertioned bernia as all of them had a sac

proportions as some as an or mean same as a fact of factors and a fact of factors of fac examination of the patient in many different postcan make the support of the middle be-tween the siphoid and smbalcus. Frequently only tender spot can be found. If emphasize the fre quest similarly of the symptoms caused by such berms to those of ulear of the stomach. In most of the cases he reports the pre operative dismosts was the cases on reports one par experience of those based on clinical findings not supplemented by those of rocuteen examination.

MAX M ZOROMA, M.D.

# GASTRO-INTESTINAL TRACT

Gray, H. K. Balfour D. C., and Kirkhu, B. R. Camer of the Stormach. Am J. Camer. Old.

This article was prepared at the request of the American Society for the Control of Cancer as one of acries of monographs on subjects of interest and importance to those supaged in the diagnosis and

The authors call attention to the fact that cancer of the stomach causes more deaths than cancer of any other organ and in the majority of cases seen by the surgeon is too far advanced to permit complete removal of the involved tisens. In spite of the passtreet which has always existed in the minds of members of the medical profession and laymen, experience has shown that a malignant process

in the stomach may be cured if it is diagnosed early in its growth Roentgenological diagnosis has made possible the recognition of cancer of the stomach in its earliest stages, and such an examination should be insisted upon for every patient with symptoms suggesting a pathological gastric change which do not subside rapidly under treatment with The authors believe that as une usual remember the auditors the only possibilsurgical removal of the resion ones the only possible ity of permanent relief, exploration is warranted in any case of cancer of the stomach unless the condition is clearly incurable because of distant metastasis or unless the lesion itself is definitely inoperable as evidenced by the findings of roentgen examination The authors review the etiology of the condition,

the age and sex incidence in several large series of cases, and the many methods which have been suggested for the diagnosis of gastric cancer gested for the magnesis of gasting advance in the state that the most outstanding advance in the

The discussion of the treatment includes the indidiagnosis is roentgen examination cations for operation, the pre-operative treatment, the anæsthesia for operation, the operative technology and the postportion of the operation The authors believe that the mortality of partial gastrectomy for nique, and the postoperative care cancer should be close to 10 per cent the closest and nother contains and nother conta the clinical and pathological factors affecting the prognosis and conclude that the three factors most important in decreasing the possibility of long surimportant in decreasing the possibility of folia survival after operation are involvement of the lymphotographic survival after operation and the lymphotograph phatic structures, serosal involvement, and high-The X-ray diagnosis is discussed by Kirklin

grade malignancy On the Technique of Partial Gastrectomy (Biliroth I) Acta chirarg Scand, Bohmansson, G

The author advocates resection by the Billroth I method as a routine operation for gastroduodenal ulcers In cases without acute complications its mortality is less than 4 per cent Bohmansson performs it under local anasthesia with splanchuc and vagus block from a median incision Important factors in the technique are observance of the anatomical conditions, gentleness in the handling of the vessels, muscles, and nerves in the resection edges, avoidance of the use of clamps on the usues left, intestinal incision with diathermy, extensive mobilization of the duodenum in cases of duodenal ulcer, and care to avoid making a too-wide anasto-

The article is concluded with a brief review of the indications for the operation and the usual compli-

cations

Late Intestinal Stenoses Secondary to Hernial Incarcerations (Le stenosi intestinali tardive secondarie agli incarceramenti erman) Arch Costa, G

Costa sums up his theories regarding late intestinal stenosis secondary to hernial incarcerations, reviews clinical and experimental studies of the condition,

and reports eight cases in which he operated success-The number of reported cases does not exceed fully The number of reported cases uses used for the condition.

The decrease in the frequency of the condition. The decrease in the frequency of the condition. in recent years is attributable to more frequent performance of the radical operation for herma and early intervention in cases of strangulation

The origin of this clinical entity always lies in an error in judging the biological condition of an intestinal loop which, after temporary strangulation, incomma roop which, area temporary strangulation, is replaced in the abdomen at operation or by manual is replaced in the abdomen at operation of of manual reduction. The mistake is often unavoidable because the changes are not distinct and the loop does not present a uniform or pathognomonic appearance However, the mechanism of the stenosis is always the same The lesions begin in the mucosa, which undergoes massive ischæmic necrosis In this process the action of the constriction ring is most important. It stimulates the muscular layers to contract, thus throwing the mucosa into folds and cutting off the blood supply at the base The lesions extend progressively toward the exterior although the mucosa is transformed into a kind of sequestrum with a line of demarcation which protects the outer layers and the pentoneum If operation is performed at the stage when the process is limited to the mucosa, the lesion will escape the most careful observation Therefore the condition underlying the late stenosis 18 a temporary strangulation which is compatible with a slow cicatricial reconstruction

The clinical course is progressive. into a prodromal stage characterized by vague disturbances, diarrheea, and intestinal hamorrhage, which corresponds to the degenerative histological phase, and a terminal stage, in which the stenosis, partial or complete, is established A free interval of apparent cure intervenes between the replacement of the loop and the onset of the premonitory symptoms This interval, which in the reported cases varied from a few days to fourteen years, is pathognomonic. In discussing the prevention of the condition the

author emphasizes the importance of caution during ordinary hermotomies He states that while there is no decisive evidence of the potential vitality of a loop of intestine, a sign of reduced vitality, which has not been sufficiently appreciated, is a total, massive infiltration of the intestinal walls

Ladd, W E, and Gross, R E Intussusception in Infancy and in Childhood A Report of 372

The authors report on 372 cases of intussusception from the Children's Hospital, Boston To show the improvement in the treatment of this condition, the results obtained in the twenty-) ear period from 1908 to 1927 are compared with those obtained in the fiveyear period from 1928 to 1932 Of the 90 cases treated in the last five years, resection was done in only 2 (2 2 per cent), whereas of the 282 cases treated in the previous twenty years, resection was done in 28 (10 per cent) The reduction in the frequency of resection was due to the following 3 facts

In the last five years patients were referred ear iter for treatment.

The surgeous became somewhat more bold in attempting to radice intrassurceptions which previously were regarded as irreducible

3 Experience showed that the intertine which was bedly disclored and damaged after reduction was frequently viable, whereas formerly such an ppearance would have led t resection.

Eighty-even per cent of the patients were under two years of ge and 70 per cent were between the ages of four and eleven months. Sixty-one per cent

sers boys

The important and most frequent symptoms were attach of abdominal pain, pailor, swetting, rouling, and the passage of bloody stools. The prominent physical facilities a short, debydration, a paips be bedgetted mass, the passage of blood from the tectum, and possibly mass paipsibe by recruit continuous mentions and possibly mass paipsibe by recruit continuous for the florest promisers and possibly mass paipsibe by recruit continuous for the florest promisers and promisers were characteristic, but reconting our stooly was not necessary in the awarder case of scarse listensus-

reption
The small treatment was operative reduction. Resection was done only when the attempt at reduction.

failed (If the pore circuitors, only 1 were seconsaful. The mortality is all cases showed a continuous downward trend from 30 per cent in the period from 1938 to 1932 in the last five years to cases were seen within thry-six hours after the consect of everyones. In this group operation was performed with so more thirty.

Petersen, L. Adhesion of the Terminal Heurs and Hens f the Adberent Terminal Heurs. An Amsternitial, Clinical, and Christostatistical Study (Bettra six Kennins des Heur terminals future and Hen in terminals stati. Eme usa tempide, kinache and kinache-statusische Studie des deures Scaul 93, 17 Supp. 3

The thor believes that in reast case of adherent learning to confidence is consequent of development. During the physiological secmaty period of disease the terminal seam, the occurs, and the according color come is the pressed to the eight reast of superseasil region. It is characterated of such cases that the root caudally situsted part of the measileum is minute of the few the situation of the consequence of the consequence of the time of the consequence of the consequence of the time or the consequence of the consequence of the content of the consequence of the consequence of the content of the content

According to Peterson study proportiousles formes on these cases seems to occur after birth and to be nost pronounced: the transition period from youth to models ago However thes nocrease may depend, in part. I least, upon each folds and these moon as seem to be physicological in children and become petitological later in life. In an increased may be applied to the control of th

portance. The condition is encountered more often in mains than in femmion. In the letter or real-port littant no scars are found in the shammer measurement of appearing the parts are transformed by scars. In cases of litten the faced terminal ideas them than the faced terminal ideas them changes are reconstitutional, even with this occlusion, scars are sometimes absent. A membrane similar to Jackson membrane seems sometimes to take part in the contribution transferrent ion.

According to the author's anatomical and embraclogical findings, the terminal ileum and suspord colon may be tracked to their surroundlars or directly t each other and, in addition, ma be fixed to the dorsal abdominal wall in the right illac force even in the absence of demonstrable scar transfer The author' findents support Broman's hypothesis that the physiological accordary firstion of the intestine as due to the general adhering tendsacy of the scross under certain conditions rather than to an adhesive tendency subcrited in the ger minal layer which migrates from one part of the betestine to another. An innate obering tendency between the fleum, circum, ascending colon, and hepatic flurure does not seem probable. The a thor holds that the function of the proximal color is not released in the later months of embryome life, and that, accordingly there is no third physiological affixing period for the interime

Peterson's scatistical Investigations on Trevels octo-opendis types reveal a marked forming and deforming influence of the intestinal coatenia and arrivity on the necessappendry. A transformation of the first that the contract of the post-open assumed in childhood. The native is of the opinion that seems of the post-opendical adhessors are first information. If the between the greating stated of appendict a stated have occurred. A long agnostic color in foosit relatively coursed.

Octations may be divided into a sestern Emperor and in eastern European group. In Finland, the latter is found. They are characterized by frequent association in the forms of demonstrates are despiticable or congruint a sometiles or variants of the intentiles and secretary but are other transformed in the course of years. These outbusions court almost earthwards in tasks.

often in fetures in Kareise

The adherent terminal lieum is orders as imports a factor in the construction of which so the them, twated occlusion, and other forms of lieus in the terminal ileum. It irrequestly seems to constitute the development of the seeds also sits denied focuses and sometimes to the occurrence of vel-velop of the necess.

The variant adherent terminal sleum serior i occur in many countries. It is common in the castern part of Finland and probably throughout that company to the configuration of th

try. It seems to predispose to ileus in races with a more or less apparent admixture of Slavic blood. However, heavy physical labor and life under relatively unfavorable conditions are contributory factors. Ileus of the adherent terminal ileum occurs chiefly in men between middle and old age who are engaged in heavy agricultural labor.

The majority of persons with the condition suffer for some time with gastric and intestinal disorders, often in the form of a more or less pronounced obstruction of passage in the lower part of the small intestine. As a rule the onset is comparatively acute, but it occurs more often within a few hours or a day

than as a hyperacute condition.

The typical acute attack indicates a quickly developing pronounced toxic state with the obstructed intestine lax and filled with fluid and rapidly slackening peristalsis. In rare instances intestinal gan-

grene has been found

Operation should be done under lumbar anæsthesia or, in the cases of seriously ill patients, local anæsthesia Both hefore and after the operation generous amounts of fluids and hypertonic sodium chloride solution should be given After the operation the intestine must be well evacuated in the least fatiguing manner The basic aims of operation are removal of the obstruction and provision for efficient postoperative evacuation of the obstructed intestine Simple detorsion is sufficiently effective only if the afferent coil shows good peristalsis and vitality In the absence of good peristalsis and vitality of the afferent coil, appendicostomy or a Witzel ileostomy should be done. If the wall of the ileum is fragile and relatively inactive, cæcostomy may be tried In this procedure as well as in appendicostomy the fistular drain should be introduced into the afferent intestine through the coils of the colon and past the obstruction. If the condition is very toxic and a large part of the small intestine is bulging and lax, the formation of an axial artificial anus seems to he indicated

The prognosis is unfavorable. In Finland the mortality in operatively treated cases has been reduced from 595 per cent in the period from 1915 to 1930 to 452 per cent in the period from 1931 to 1932. The danger of a secondary adhesional occlusion or of recurrence of occlusion by the adherent terminal ileum is not slight. When, after the operation, there are signs of a low obstruction in the small intestine, ileocolostomy or resection of the intestine should he considered. Louis Neuwell, M.D.

# Dinnick, T The Origins and Evolution of Colostomy Brit J Surg, 1934, 22 142

Wounds of the bowels were recognized in remote antiquity. Even then it was noted that persons with bowel wounds sometimes survived when a fæcal fistula was established and that in cases of strangulated herma a cure sometimes resulted when an artificial anus was formed as the result of inflammation and sloughing. The anatomy of such openings was well known, and the afferent and

efferent loop and the spur were described by many ancient writers Stabbing of the colon of a sheep or horse suffering from obstruction is a veterinary operation the origin of which is lost in remote an-Pillore, a surgeon at Rouen, performed tiquity excostomy for cancer of the rectum His patient, a wine merchant, died on the twenty-eighth day after the operation Autopsy revealed that the colostomy was functioning perfectly without leakage into the peritoneal cavity. Death was caused by the previous administration of about 2 lb of quicksilver which, held up in a loop of jejunum, caused the loop to gravitate to the pelvis and thereby produced disseminated gangrene of the small bowel. The primary obstruction was due to a carcinoma of the rec-

Colostomy may be said to have had its real hirth when Duret in 1703 performed a successful left iliac colostomy in a case of imperforate anus in a child three days old The patient lived to the age of fortyfive years With Duret began the history of colostomy Duret antedated Callisen in the conception of lumbar colostomy He made a very small incision and secured the howel by a stitch in the mesocolon, thus preventing recession of the bowel He noted the occurrence of prolapse and he used the anal canal as a channel for the administration of a colonic flushing Surely, as the prophet says, "All knowledge is but a remembrance, and all discovery but a forgetting" Duret was professor of surgery at the Military and Manne Hospital at Brest, a humble and obscure naval surgeon In 1707, Dumas reported to the Medical Society of Paris a case of imperforate anus He did not operate in that case, but from the findings at autopsy he concluded that a colostomy on the left side would have been feasible surgically

In 1797, Fine, surgeon in chief of the hospital of Geneva, performed a transverse colostomy on a woman sixty-three years of age after obstruction had been present for fourteen days. The operation was successful, but the patient died three months later and autopsy revealed a primary growth in the upper rectum causing complete obstruction.

The first colostomy in England was done in 1815 hy Freer, a surgeon in Birmingham Freer performed a left iliac colostomy for imperforate anus and the child lived three weeks, dying eventually of marasmus In 1820, Pring, of Bath, a clever and resourceful surgeon, performed a left iliac colostomy on a patient who had had an obstruction from cancer of the rectum for twelve days The patient survived It was not until the time of Amussat, of Paris, that colostomy was rescued from the realm of occasional and heroic operations and advanced to its proper place in surgery Amussat abandoned the longitudinal incision of Callisen and Duret and substituted a transverse incision 4 in long made midway between the last rib and the iliac crest and extended well hack to the erector spinæ and quadratus lumhorum muscles He fixed the bowel to the anterior angle of the wound by a stitch and left the rest of the wound open Lumbar colostomy was an operation well

suited to the pre-amenthetic and pre-antheoxic times in which Amount hved Amount s activities gave the operation an impetus which carried it successfully to the time of the younger Allingham It became the operation of election and was practiced by all surgeons in Europe, England, and America. It will be remembered that Duret etitched the usesocolon. This most effectively prevented collapse of the bowel and formed a good goar. In 1855 the necessity for a apor was definitely recognised. In 888, Maydl advanced and simplified colostomy by his kies of passing a vulcanite rod through the mesocolon. The rod lay pas the bally wall and very effectually prevented recession of the loop of bowel dutinct ways of performing an abdominal colontomy are now recognized. One depends for its efficiency upon a spor-the method of Duret, Allingham, and others. The other consists in devision of the bowel, closure and invarination of the distral and and utilization of the free proximal loop in various ways. The use of this method led surgeons to careful study of the colonic blood supply. Hany highlious methods of operation have been devised to obtain sphinctene control of the arms

JOHN W NORM, M.D.

Brandman, IL. Appendicitie and Acute Informers tory Abdominal Conditions in Scarles Ferrers A Report of Nine Cases and a Reniew of the Literature And Swy 914 to 6

Residence reviews nine cases in which indominal menifestations of scarlet fever were mistaken for the ymptoms of sout appendictus or pathological involvement of the right lower belominal quadrant developed during the course of the exapthem. In addition, he cites tixty four cases collected from the literature and several cases reported to him personally in which a pathological condition in the lower right quadrant of the abdomen was associated with scarlet fover

The abdominal organs that may be ravolved are ) the appendix ( ) the lymph nodes between the Benn and escum (s) the lymphoid patches of the Beaux, (4) the lymphold tumes of the necum taelf (s) lymph nodes elsewhere in the measurery and (b) the spleen

When the presence of ppendients is suspected dur ing the course of scarlet fever the possibility of sporttancors regression must be balanced against that of perforation and perstoults and the condition treated in the same way as I would be treated in the absence GROSSES A COLLETT M D of scatter fever

Brown, C. J. O. Deaths from Appendicitis. Net J. Asutraha 034, 407

In discussing the mortality in series of cases of appendicate treated at the Alfred Housetslin Metbourge, Australia, Brown amphasizes certain causes of the present death rate. Chief of the latter is delay of treatment, for which both the patient and the obvaices are responsible Brown says that dragposes should be possible within twelve hours after the onset of the condition, and with modern methods of communication and transportation there are very few patients who could not be operated upon within this time or at least althin the first twenty-four bours, when the mortality is less than I per cent. The high proportion of atypical cases among those which are fatal and the occurrence of privic appeadicitis and appendicitis in the ged should be burse in mind.

In into cases, the technique of operation is of great importance. Interference with the abdominal contents must be minimal and manipulation of the small intestine must be avoided. Paralytic flens is largely the result of poor technique. A small menton, blad operating, unnecessary packing, rough handling of the bowel, and careless harmonisms are the fatal technical errors. The author has found that drainage is not often required, and when necessary its eschiluss ceases after forty-eight boxes. Ha believes that the long continued retention of drainage material is power justified and definitely increases the complications. Jacon M. Mona, M.D.

Achinatowica, L. Sixty-One Capre of Volvulus of the Remoid and Observations on Their Serticui Trestment (Soirante et un cas de voiraies de l'anne agracide et quelques abarryations ser lour traltement opératours). Bull et mén. Sec de clormyles de Par 034, 20 372.

In the fifteen years between a q and rand, 46 cracs of mechanical intestinal obstruction were observed at the St. Jacques Hospital in Wilso, Poland In sor the obstruction was due to a strangulated berafa in 6 to waterake of the eigenoid loop in 5 to adhesion lious in 38, to volvains of the mali intestine in to introsperentian and us 8, to volvalus of the cream Volvalus of the signoid loop is favored in Poland by the dist, which is very conductive to flatulence, consisting as rule almost exchangely of vegetables and bread. However its development requires, in addition t the effects of diet, a mesenteric deformity allowing abnormal movement of the sigmold. It is far more common in males than in females. The parients whose cases are reviewed by the author ranged is ago from placteen to eighty years, but the greater number were in the fifth decade of life. The tendency toward recurrence of the volvalus is very marked. In 16 of the crees reviewed there were a or more recurrences. Five of the patients had already been operated upon for the condition

The first symptoms is almost invariably generalfired abdominal palm. In the cases reviewed this as of an increasing and decreasing type and did not become localized. In large number of cases it was associated with vomiting. In almost all of the cases there was marked tympenites without the present of gas or facal matter by rectum Rarely blood and mocas were discharged from the rectum Occasionally the beginning of the attack was stended by the picture of severe shock. As a rule, box ever the temperature and pulse remained normal. Examination revealed very marked unsymmetrical distention of the abdomen in the transverse diameter. This was especially noticeable under the costal margin. In the majority of the cases it is possible, by careful inspection, to observe the sigmoid loop filling and emptying, a sign first described by Obalinsky in 1889. This sign can be provoked by gentle percussion over the lower quadrant of the abdomen. The author regards it as a more or less reliable indication of vitality of the sigmoid loop as it is usually absent when the bowel is necrotic. Rectal examination is rarely of aid.

The treatment indicated is usually operative but in some cases conservative measures may be attempted first. The flushings described by Hegar and hot baths may be of value. The attempt may be made to pass a soft rubber tube to the obstruction, but this is definitely dangerous. In the cases reviewed, 24 of 36 patients subjected to this procedure were benefited, but 2 died, presumably from perforation. In 18 cases operated upon, necrosis of the sigmoid was found. The volvulus had reached 180 degrees in 12 cases, 360 degrees in 21, 450 degrees in 1 case, 720 degrees in 4 cases, 900 degrees in 1 case, and 1,020 degrees in 1 case.

The author operates under general anæsthesia, after he has corrected the volvulus and before he closes the abdomen he evacuates the intestinal contents by means of a large rubber tube introduced into the rectum. In cases in which the bowel is necrotic he has found the mortality lowest when the necrotic segment is exteriorized and intro-abdominal manipulation is limited to the absolute minimum.

In conclusion he urges early operation

WILLIAM C BECK, M D

Lee, H, and Staley, R W Inflammatory Strictures of the Rectum and Their Relation to Lymphogranuloma Inguinale Ann Surg, 1934, 100 486

The authors state that the specific intradermal test of Frei explains the apparent discrepancy between the number of men and women affected by lymphogranuloma inguinale. This test shows that the disease is common in women, but that in the female it is often represented by a stricture of the rectum and seldom by involvement of the inguinal lymph nodes whereas in the male the reverse is true. The site of the primary lesion and the lymphatic drainage of the external genitalia in the two sexes are responsible for the variation in the distribution of the lesions

The lymphatic drainage of the glans pems and prepuce is primarily to the inguinal lymph nodes. These have connections with the iliac nodes above. An occasional lymph vessel leads directly through the femoral canal and abdominal muscles from the glans pems and prepuce to the iliac and hypogastric lymph nodes. A number of anastomoses are present between the lymph vessels of the glans pems and prepuce and the skin of the scrotum, and occasion ally there is a direct connection with the anal region

The skin of the scrotum drains chiefly to the inguinal region. The abundant connections of the skin of the scrotum with the anal region are of great importance as they indirectly connect the penis and the cutaneous lymphatic network of the anus.

The clitoris and vulva drain principally to the inguinal nodes. The lymphatics of the posterior portion of the vulva have extensive connections with the cutaneous lymphatic network of the anus. In both sexes there are many communications between the anal network of lymphatics and Gerota's nodes at the anorectal junction. The connections between the lymphatics of the posterior vaginal

wall and anus are quite free

From our knowledge of the lymph drainage it is understandable how involvement of the lymphatic tissue of the inguinal region or anus can cause elephantiasis of the external genitalia or stricture of the rectum, depending upon the degree and location of the involvement of the lymph channels. In the male the primary lesion is located chiefly on the glans penis and prepuce, this fact accounting for the frequency of inguinal bubb and the relative infrequency of rectal stricture. In the female, the primary lesion is thought to be located most often on the vulva or the posterior wall of the vagina and as the lymphatic pathways of these sites have abundant connections with the anal region, the complication of rectal stricture is to be expected.

Of the sixteen cases of rectal stricture reported by the authors, the Frei test was positive in fourteen Eleven of the thirteen women and two of the three

men were colored

In discussing the factors to which rectal stricture has been attributed, the authors state that lymphogranuloma inguinale is by far the most frequent cause

EARL O LATIMER, M D

# LIVER, GALL BLADDER, PANCREAS, AND SPLEEN

Lozano, R Is There a Functional Specificity of Certain Regions of the Liver? (Gibt es eine funktionelle Spezifitaet bestimmter Leberbezirke?)

Deutsche Ztschr f Chir, 1934, 243 52

The relationships between the liver region and the region from which the portal vein takes its source, which have been described by Henschen, led the author and others to attempt to answer the question whether it is possible to demonstrate physiologically significant and definitely measurable functional differences between the two halves of the liver or the hepatic lobes corresponding to the anatomically demonstrated bilateral division of the portal vcin and the other vascular branches A dual function is suggested by the fact that a main stream from the stomach, the spleen, and the area of the inferior mesentenc vein runs laterally to the left in the portal vein and empties chiefly into the left half of the liver (this being possibly a sinistrotropic source stream) and a second main stream, fed from the small intestine and the ascending colon and therefore from

the superior mesenteric vela (possibly a dextrotropic source stream) impoles uself to the right laterally int the right half of the liver Moreover it is known that the left half of the liver is the most common site of accordary fiver abscesses arising from dysenteric nicers in the left half of the large intentine while the right half of the liver is the most common site of metastatic infections from perityphilitic becemes or abscesses in the right half of the abdomen Attention is called also t the fact that there are two lever baives which are topographically anatomically, and functionally independent of such other and divided from one another not by the hepatic suspensory ligament, but by the so called line of Cantho, a line extending from the gull bladder to the hepstic - sin which divides the liver into two parts of equal weight

The formulation of a working hypothesis required the demonstration of definite, regionally fixed, func tional areas in the liver by chemical malysis of the tiesees with regard to their content of water dry substance, pitrosen, and fat, and determination of the relationship of any functional differences to the zone of Captiles The author therefore easilyzed (1) the livers of five normal dogs, ( ) the livers of starved dogs, and (3) the livers of four dogs in which, by the artificial production of blood stems, some of the lobes had been increesed to twice their eight when they ere free from blood

These studies showed that while there are dif irrences in the water mitrogen, and fat content of the individual liver lobes, there are no definite anatomically determined functional differences between them The line of Casthe may well be considered the dividing has between the right and left weacular trees, but is not the dividing time between two functionally different belves of the liver

The author compares his findings with the contradictory findings of School and attributes the fre occupily marked differences in the results of snalyses made by previous investigators to differences in the amount of blood present in the helividual fiver lobes and the liver region, which is difficult to determine at plopey (H CHANK) HARRY A SALEMANN, M D

Bendales, A. J. and Suitres, C. V. Provoked Ellmination of Gall Stones (La chranacion prevecade de los cálculos bulsares). Bel but Ser de carse de Ducine Amer que à plus

Although early operation has decreased the gross mortality of surgery of the biliary tract, the death rate still remains bush in cases of senous beliany tract disease Because of the particular fragility of patients with gall stones, there is field for medical desinage in calculous obstruction of the common duct as a means of avoiding operation in certain

The methods recommended by the uthors are medical and medicoungical. The medical treatment consists of dramage by the Meliner Lyon method In the medicosurpost treatment the thors myc for several years successfully combined installations

through the Kehr tube with the use of the decised sound In the technique they employ the Kehr tabe is plached of dechoin is given intravenously and atropin is given hypodermically. The duodentin is washed out with tepid water through the doodesal sound and do com of a 30 per cent solution of magnestum sulphate are instilled. Agenal salt solethe (from goo to ,000 ccm) is then allowed to run into the Achr tube. It comes any through the duoderal sound, bringing with it morns, détrites, and fragments of stone. This procedure has enabled the authors to verily and study the relating action of magnesium sulphat and atropin on the sphiacter of Oddi.

The principal indication for medical decision of the bile passages is the period of obstruction in cases of stones in the common dart. The authors have noted that a syndrome of common-duct obstruction proceedes elimination of the atomes by the natural route in all cases. They stat that medical drainage should of course never be ttempted in the presence of acuts cholecysticis or hydrops of the gell bladder In the majority of cases of common-duct stone in which it is used the similarties is complete. When expulsion of the stone is obtained in cases presenting the common-duct syndrome, operation need not be borried. The further evolution of the case will indicate the course t be followed, As rule the faundece and infection of the billary passages disappear rapidly and permanently

Of a total of eighty cases of stoom in the common dact, the authors succeeded in similarities the stores through the intestinal tract in 3 (15 per cent). Mr of the patients required operation later one secureded is expelling the residual stones after operation and the remaining six, after embusively medical treatment, have remained in good health for varying numbers of years. Several of the patients were addedy persons with cardiovascular discuso, and some were to procarlous condition from infection The case hatores are reported in detail with M E Moser, M D. PORTED DESCRIPTIONS

Milkhalest, O. Acute Pancrentitia, L. Severe Court, With Special Regard to Their Consurative Treatment (Pascreatitis scuta J. Schwere Facile. besonders hasachtisch skrac kommerativen Rebundling) fitte throng Scend \$34, 25 373

The author states that improvement in our knowledge of acute pancreatitis consuts almost exclusively of a better understanding of the etiological factors and the extents for degrees. The treatment of the condition still remains almost exclusively surgical and the average case mortality of surgical treatment at still so per cent Surgical treatment involves either the pancreus teelf (increase late the capsule and drausage) or the bile ducts

It is possible out that there is no assistment basis for an operation on the pencreus. The pencreus has no true capsule in the anatomical sense of the term The structure divided by a tackdon rate the pascreas is the peritoneurs revering the organ, and an incision through this peritoneal cover cannot relieve the secretory tension in the pancreas. The pancreas is made up of many small lobuli which are separated by thin septa of connective tissue. To relieve pancreatic tension it would be necessary to divide the thin layer of connective tissue covering each lobulus and that is impracticable. Moreover, the interlobular connective tissue septa are intimately connected with the glandular tissue which is always affected at the same time. An operation of this type is therefore apt to cause an increase rather than a decrease of the necrosis and intoxication. In addition, it is associated with a not inconsiderable risk of hæmorrhage and fistula formation.

Operations on the bile ducts are theoretically more logical. However, the systematic performance of such operations in recent years has failed to bring about a decided decrease in the case mortality, no doubt because the patients are in such poor condition that they are unable to stand any operation whatever

Recently a few surgeons have adopted more conservative treatment, some of them postponing the operation until the shock stage has been passed and others postponing it until all acute symptoms have subsided and then operating for gall stones when these are found to be the cause of the acute pan-

creatitis or if the process goes on to abscess or cyst formation

On the author's service during the last eight years, thirty-nine cases of severe acute pancreatitis have been treated conservatively. Of twenty patients who were extremely ill, being in a state of shock, only three died. Of the nineteen others, who were also very ill though not in a state of shock, none died. The diastase value usually ranged from 3,000 to 12,000. In only two cases was it under 2,000. Sub sequent operation was performed only when the presence of gall stones was ascertained with certainty, and then not until from one to three weeks after subsidence of the acute symptoms.

The treatment which the author has adopted in-

cludes the following factors

r A plentiful intake of fluid (water, tea) by mouth as far as the vomiting will permit

2 The subcutaneous and intravenous administration of 1 liter of physiological salt solution several times daily

3 Stimulants and, frequently also, when the blood

pressure is particularly low, ephetonin

4 Peristaltics—enemas containing 2 c.cm of sennatin once or twice daily and, in some cases, the intravenous injection of 1 c cm of pituglandol once or twice daily

# GYNECOLOGY

Ducting, J. The Treatment of Fibromata of the Processes) Bull See Foot at de Proce de Par

This article is based on the anthor' experience in the treatment of over 300 cases of fibroms of the the treatment of over 300 cases or autonote or one similar cases by means of physical agents

Docaring says that abromata of the uterus are more common than is generally assumed, but many of them do not cause symptoms Occasionally they tacm on not cause symptoms. Occasionary may prolong menetration without affecting the general health, and in some cases they cause symptoms of

The treatment of uterine fibrozzata is not without danger. The mortality and morbidity are quite conadderable even when brackation is used. The other believes that radium, especially when it is placed within the uterine cavity is more dangerous than the X rays In one of his cases the intra-nteribe introduction of radium was followed by death from secretarized or recommendate the states that fibromats should not be treated unless they cause symptoms

Surgical treatment is indicated for all cases of fibroms in which the disgreens is doubtful, cases of norma in when the transfer or undergoing degener ation, cracs of fibroms complicated by an affection of the terms, and cases of abrums complicated by an affection of the neighboring non genital organs. The type of surgical treatment indicated depends upon the nature of the tumor

Physical agents should be employed in cases in which surgical treatment is not indicated or opera tion is contra-medicated by some complication such as cardiac, pulmonary renal, or hopatic lessons. The

various methods of treatment with physical agents

Ducung's conclusions are summarized as follows Not all fibromats must be treated actively Only "pathological" shromata should be treated Only paracoopers automate sector to the

In cases in which the diagnoses is not certain, surgical treatment is indicated. This policy to all cases of fibroms with complications except those of fibroma complicated by cancer of the cervix, since, if the fibroma is large, Wertherm method most be used, and if the fibroma is small i cannot be diag nosed without operation. In the absence of special indications, subtotal hysterectomy is preferable to total hysterectomy When possible the ovaries should be preserved completely or in part

3 There re numerous indications for the treat ment of aterine fibroms by physical agents. Such treatment is probably indicated more frequently than is generally assumed. In the majority of cases than in generally assumed in the managery of the large tradition is preferable to radium irradiation Fractional doses give the best results

4 It appears that about 60 per cent of fibromets should be treated surgically and about 40 per cent by physical agents Assor & Schwarmers, M.D.

# ADMERAL AND PERIOTERINE CONDITIONS

Aschheim, 8.1 The Action of Gonadotropic Substances on the Orany (Ueber die Writsspart genadotroper Stoff auf den Estratock). And f

With a series of surines or surine extracts Aschhem was ble to obtain only follock maturation in ovaries H did not obtain rupture of the follacles or corpus laterum formation. He calls the factor producing the

W th ammoniacal extracts of the anterior lobe of the hypophysis t was possible to obtain is the ovarios of infantile animale only the formation of small attetic corpora intea and to obtain these with denge Occasionally there present only sight change of the follcular och Large does caused maturation of corpora lutes already present without producing evidences of centrus in the vagonal smean and without causing enlargement of the uterns From these facts the thor concludes that the gooadotropic substances of the anterior lobe of the hy pophysis and those extreted in the urine are different substances with a similar piologrami action. In contrast to Factor A there is Factor B which controls the development of the corpora lutes and vasculari-

Aschbeim conducted experiments also to deter more whether rupture of the follicles is caused by bormones. By injecting Factor A he secceeded in causing the formation of large follicies in the ovaries of infantile mice. As soon as vagnasi amoun showed the systemose of centrus be injected Factor B. The injection of Factor B was followed by the rupture of sumerous folicies, the formation of corpors intes, nd the ppearance of ove m the tubes

Is the physiological interaction of these t

tors, the follicle-maturing Factor A and the follicle Interesting F ctor B Factor A beings the follocies to maturation and then Factor B favors their rupture with extrusion of the ove, causes the granulous cells t change into lutern cells, and, by the bodding of

new vessels from the theca cells, brings bout vascolarization of the curpus internm. Therefore suprises of the follicies is not a mechanical process resulting from increased internal pressure but process due to hormones m which Factor B acts spon the fol-Bealer cells in manner as yet not understood. Factor A prepares the granulosa cells—scashizes

them—for the action of Factor B, its effect being analogous to the sensitization of the uterine mucosa by the follicular hormone for the corpus luteum hormone HANS OFTO NEUMANN (G)

Montgomery, J. B., and Tarrell, J. T., Jr. The Value of Postoperative Roentgen Irradiation in Carcinoma of the Ovary. Am. J. Obst. & Ginec., 1934, 28, 365

The authors outline a method for the clinical classification of ovarian carcinomata and report an analysis of twenty two cases with regard to type, grade of malignancy, operability, and response to postoperative roentgen irradiation. Of eleven patients treated more than five years ago, five (45.4 per cent) are alive. Of fourteen with a papillary existed enocarcinoma, seven are still living and of three with a papillary adenocarcinoma, one is still living. Of four patients with an adenocarcinoma, all are dead. The one patient with a granulosa celled carcinoma is still alive.

The granulosa celled carcinoma is the least malignant, the papillary cystadenocarcinoma is more malignant, the papillary adenocarcinoma is more malignant than the papillary cystadenocarcinoma, and the adenocarcinoma the most malignant

The histological griding of malignanci is important in the prognosis of ovarian carcinoma. Only one of the authors' patients who had a tumor of a high grade of malignancy survived more than tive years. All of the patients with a tumor of an intermediate or high grade of malignancy are dead. Those with tumors of an intermediate grade of malignancy lived longer than those with tumors of a high grade of malignancy. The more completely operable the tumor the greater the life expectancy.

Postoperative irradiation is often of value in reheving the pain and ascites, reducing the size of the tumor, and prolonging life. In nearly all cases of ovarian carcinoma, regardless of the hopelessness of the prognosis, postoperative irradiation should be given if the patient's general condition permits.

In the discussion of this report, KEENE said that it is impossible to foretell the response to irradiation in a given case. He regards the histological type as of little or no value in the prognosis and X ray irradiation as of little value as a palhative measure. Of twenty six patients he treated two or more years ago, ten are still alive.

EDWARD L CORNELL, M D

## MISCELLANEOUS

Klaften, E. Cystodiaphanoscopy A New and Simple Method of Examination J. Obst. & Gynac Bril. Emp., 1934, 41 739

When cystoscoping in the dark chamber more than twelve years ago, Klaften was struck by the clear flashlight of the bladder. On the basis of this observation he conceived the idea of utilizing the bladder light, which had thus manifested itself as a luminous source, for visualizing the contents of transparent ovarian cysts and accumulations of fluid in the ab-

dominal cavity. He calls this procedure "diaphanoscopy" At first his efforts met vith fadure, but this was found to be due to the fact that the tumors he was viewing were either hemorrhagic with dark contents or composed of solid tissue. To date, he has made 730 diaphanoscopic examinations. By this means he has been able to distinguish between cysts and free flind in the abdominal cavity. He has examined also cysts in the midling where it is other wise difficult to differentiate between cysts and myoma of the uterus.

Translucent ovarian and parovarian cysts slash up like Chinese lanterns when they are lit. In cases of opique cystomata with light absorbing contents and cases of solid ovarian tumors these lighting phenomena are missed. Cases of ascites, such for example, as those due to tuberculosis of the peritoneum, carcinosis of the peritoneum, carcinosis of the peritoneum, congestive cardiac conditions, sibroma of the ovary, and granulosa-cell tumors, show the characteristic differences of a lighted-up lateral abdominal will and an absolutely dark medial portion of the abdomen. When a sibroid and an ovarian cyst are present, the latter, if translucent, appears lighted up while the sibroid remains dark

The technique is similar to that used in cystoscopy. By turning the light, a cystocele can often be seen through the vaginal vall, and by introducing the light into the rectum a rectocele can be demonstrated. The author hopes to enlarge the field of use fulness of this method of diagnosis to include pathological conditions in the upper abdomen such as pancreatic cysts and enlargements of the gall bladder.

HIRPI W FINE, M D

Caldwell, W. E., Molov, H. C., and D'Esopo, D. A. Further Studies on the Pelvic Architecture Am. J. Obst. & Gynec., 1934, 28, 482

The authors report a study of the shape of the pelves of 215 primigravide They considered it advisable to modify their original classification of pelves to include the mixed types in their proper position with respect to the 4 large or parent forms They now classify pelves as follows (1) the true anthropoid type, (2) the anthropoid type with a gynecoid tendency, (3) the gynecoid type with an anthropoid tendency, (4) the genecoid type with a narrow fore pelvis, (5) the true gynecoid type, (6) the gynecoid type with a tendency toward flatness, (7) the true flat (platypelloid) type, (8) the android type with an anthropoid tendency, (9) the android type with a genecoid tendency, (10) the true android type, (11) the android type with a tendency toward flatness, and (12) asymmetrical forms

An intermingling of types occurs when a posterior segment of one of the 4 parent groups is associated with the fore pelvis of another. This intermingling of posterior and anterior segments of the primary groups is due to the fact that the pelvic girdle develops from 7 distinct bone elements and any one element may display a radical departure in shape from the ampleness characteristic of the typical

female form

The authors advance the theory that 2 great influences may be at a ork, one, an arrest he evolution from the pe or true suchropoid form to the perfect human form which is characteristically flat, and, the other a serval or homosal factor which may determine certain masculine characters in the lemale from

Of the pelves studied, the lalet as large in 25 per cost, of verage size in 30 per cent, and less than average size in 25 per cent. Of the pelves of the generoid type, slightly fewer ere small and slightly more were large. Of the antiquoid group, 44 per cent were small, whereas of the antiquoid group.

alderable pumber were large.

It my of the private of the gy necode group aboves werenge or the subpuble angles with corresponding decrease in narrow a gloss a compared. But the series as whole In the android group there was a very definite tendency toward the narrow forms, the incidence of the latter heings, per cent as compared with an incidence of the latter heings, per cent as compared with an incidence of which the three per cent in the series as the incidence of which angles, the narrow recent procuring in only as per cent. This was an unexpected fielding

Heavy bonce or hound in 54 per cent of the androad peleves as compared with 69 per cent of the total number of peleve. The width of the public start figers on cube to the size of the force pelevis. There is a marked relationship between the width of the excit and the major of the soft walls of the pelevis, narrow arches being associated with converging wills is to ope even of the pelevis studied. In sufficient correlation was found between the width of the subgrade analysis and the surroum.

Antiniation was noted in per cent of the eather series of petree. Of the greated group, I occurred in 6 per cent of the actively group, in a per cent and of the antinopoid group in a 8 per cent. Six secral segments are found associated in henrow implorits rangels twice as frequently as with whe anges. In spite of this, assimilation was noted in oper cent of the petres with sole angies. Assimilation plays very musor rôte, if any t all, in the formation of netroes subpoles angie.

FOWARD L CONTINUAND

Gliardino, E. Researches and Canadierations on Hypophysical and Ovarian Hormones in the Mentrual Blood (Racroise considerators such oraces on are-polised set suggest to produce to the Busic 234, 9, 76.

Gilardiao reports sente of experiments in which be determined the hormone content of measural blood. The measural blood was collected by measured of meal sterm entitlet to prevent containing too from the verifical secretions as much an possible. The serme of the measural blood as injected in mice on expected small dones until total of or ju com had been injected in control sense since more than of the control sense since the control s

Whereas death rarely followed the injection of a cern, of serim of the circuiting blood, to per cert of the nationals died following the injection of sinch around of serium from measteral blood. While the fatal effect of the serim of measteral blood have been the to constraintsion by cellular differs have been due to constraintsion by cellular differs have been they considered the different to remove, the arther believes that the different substitution of the constraints of the different size factor was have been responsible.

Estimate appearant more the varies were blood into premiserant more the varies were supported to premise and continuous and the properties and continuous animateur includes. If the premise, and continuous animateur includes all the premisers of young folders, but showed mentum sized not mature folders and others that had underpose atresis. Some of the cells of the granuluse had not search in the and others had underpose propose in the properties of the properties of the propose in the properties of the properti

The injection of s or s c cm of serum of chealst ing blood into propherent mice produced for changes in the oranies. Tow nd the peripher of the orany sheets were. I few primordial follicies, and toward the center there is nevidence of the formation of follicities cavifies and of materiation, especially in the animula treated with s c cm.

After the injection of a con of meastread blood fat construct mice the entire uterus sheet hypertrophy and hyperennia. The startes hancelature was depic and the spatiellum was in the process of profillerating, showing many mitetic citizian stristons. In the base of the glands there—as evidence of securioo.

Following the injection of or 3 c cm of serson of the directions blood int custrated mice, the sterior showed mid congession, the submitted with moderately labilitated, and the glands or sine state of resi

From these experiments the subtor concludes that the meastrast blood contains jour borroones in diferent concentrations. Probat A and follicular are present in greater amounts thus Probat B and stricts. There is a definite parallelism between the concentration of Probas A and follicular. A parallelism besecul Probas B and Intelligent when excenttions is a substantial to the probability of the prosecular probability of the probability of the prosecular probability.

Perman A Rose, M.D.

Asspects, R. M. and Hoffman, J.; Endometrial Findings in Functional Measureal Disorders. As J. Okt. & Gyac. 1934, 3, 473

In study of mosty-six cases of accountles, and experience cases of steme sheeting, and forty is cases of parently normal mentitration in bire testiment as given for dynamostriens, strictly and obesity the authors found no constant relationship between the chicales in proteas and the development of premeasural endometrum. They stitle that his the development of premeasural endometrum invariably concides with orwitation and the development of a tempes latent and our understanding of the anabolic cycle is complete amendment, steffen bleefeling, and halt spens to be normal steffen bleefeling, and halt spens to be normal.

menstruation are associated with so many different states of the ovary that they are unable to explain the catabolic cycle

The clinical and laboratory findings seem to favor the recent tendency in the literature to question

- I The constancy of the relationship between the state of ovarian function and the periodicity of the flow
- 2 The truth of the idea that most healthy women menstruate regularly and at twenty eight day intervals

3 The validity of the view that menstrual bleed ing depends upon regression of the corpus luteum (negative phenomenon)

The authors believe that bleeding may be due to a

positive mechanism thus far unexplained

As amenorrhoa, oligomenorrhoa, and functional uterine bleeding of any sort are unreliable as positive indices of ovarian function, a test curettage is important in the diagnosis and treatment of functional gynecological disorders. Correct evaluation of the uterine mucosa depends upon the recovery of mucosa from all parts of the uterine cavity. The use of a pipette curette is inadequate for this purpose.

In the discussion of this report Payve stated that under normal conditions the endometrium is constantly changing. In regularly menstruating women a characteristic picture is seen for each period of the menstrual cycle. Examination of a single specimen of endometrium taken at a given time during that cycle is sufficient. However, in the event of amenorrhoa or menstrual irregularity, a single curettage is of little value in determining the endometrial changes. Hyperplasia is a coincidental condition and not the causative factor of functional uterine hæmorrhage.

EOWARD L. CORNELL, M. D.

Kurzrok, R, Kirkman, I J, and Creelman, M Studies Relating to the Time of Human Ovulation Am J Obst & Gynec, 1934, 28 319

The daily excretion of Prolan A (follicle stimulating hormone) of ten young women was studied over extended periods of time. Sudden excretion of this hormone occurred at about the middle of the menstrual cycle and had a definite tendency to recur at about the same time in the following cycle. This sudden secretion of Prolan A from the anterior lobe of the pituitary gland is considered to be the stimulus to the ovaries to induce ovulation. Evidence is cited in support of the view that ovulation follows the Prolan A excretion within about twenty-four hours. It is believed that ovulation cannot occur without the stimulus of Prolan A. However, the presence of this substance is not prima facie evidence of the occurrence of ovulation.

The time of ovulation as suggested by this method is in complete agreement with the results of all other methods used in the study of the problem. The greatest incidence of Prolan A excretion was between the tenth and the thirteenth days, hence the greatest incidence of ovulation was between the eleventh and fourteenth days.

One of the cases suggested the possibility of menstruation without ovulation, and another, of ovulation without previous menstruation. Two of the patients studied became pregnant while under observation. In both, the course of events was noted from menstruation through the termination of pregnancy.

Suggestive time relationships between menstruation, ovulation, fertilization, migration of the fertilized ovum, and nidation are considered. In two cases a positive Aschheim Zondek test was obtained very early, namely, on the twenty-fifth and twentyseventh days after the onset of the last menstrual period or two days before and one day after the expected onset of the skipped period

The sudden change from a positive Aschheim-Zondek test to a positive Prolan A reaction at the end of pregnancy is suggestive of multiplicity of the gonadotropic bormones from the anterior lobe of the

pituitary gland

In the discussion of this report Frank said that the only deduction he was willing to draw from his studies of blood and Kurzrok's studies of urine is that when this kind of bormone is found in the blood or urine or both on the ninth and eleventh days, the prepituitary, adenohypophysis, is acting cyclically As ovulation depends on so many extraneous factors, Frank does not believe its occurrence can be considered proved by these tests

EDWARD L CORNELL, M D

Paroll, G The Problem of the Sensibility of the Female Internal Genital Organs and the Question of Pain in Gynecological Diseases and Labor (Il problema della sensibilità degli organi genitali interni femminili e la questione del dolore nelle affezioni ginecologiche e nel tranavlio di parto) Riv ilal di ginec, 1934, 16 113

Paroli reviews the anatomy of the female internal genital organs with special reference to the sympathetics, the somatomere associations, and the factors which influence pain and the interpretation of pain. He discusses particularly referred pain and the results of peripheral treatment by novocainization of the area to which the pain is referred. In many of his cases this treatment was moderately successful

He states that the pain associated with the female internal genitalia behaves like visceral pain in general, having specific peripheral zones of reference. This phenomenon of peripheral reference is explained best by transmission of the pain through the parietal pathways which correspond to the same sections of the spinal cord as the visceral sympathetic pathways. Referred pain is of importance as a warning sign of an internal disturbance.

The zones of peripheral referred pain from the genitalia are different for the adnexa and the uterine corpus and cervix. Adnexal pain is referred to two bilaterally symmetrical zones which correspond more or less to the zone of the middle third of the inguinal ligament and to secondary zones in the lumbar region and the anterolateral aspect of the thigh correspond-

ing to the first, second, and third humber segments. Peripheral amenthetisation in the repon of the first lumber segment results in marked relief.

Palls in the body of the terms is referred; t we symmetrical parametric sparagolic some which represent part of the first lumbar neuroneme. Palls in the cervit of the terms is referred pendiculty to the innhosated region. Peripheral Americal printing tallity good results in the corpical sone, but only machines usually the cervical sone. The angular the adversa terms have no innervation like that of the adversa.

The pains of labor are referred to the scote described for the various perit of the genitals. In case of dystocia due t cervical spaam, the lumboacrul pain ha pertucularly severe. In such cases the general antispasmodics are of value, but bed ladons is best as the acress responsible are pre-dominantly parasympathetic. Local amenthems too has not proved of merch ald in labor.

In cases of pain due to cuts and chronic adnered inflammations, tumor torsions, and genital carcanoms, pempheral novocalmination often results in prolonged, and sometimes permanent robel

A LOOM ROW, M.D.

Sturis, I.; The Endethelial Sign in Obsertrice and Cymecology (Il segno endethele nel campo carrince-glocologico). No seel di presc. 934, 6 923

The demonstration of the endeshelial sage depends upon increased endeshelial permeability and consists esentially of a more or less accurate count of the perceibial herocorriages occurring in the cubrial loss following constriction of the currication at certain specified pressure and for a definite length of time.

When the number of petachial hemorrhages does not exceed 6, the test is regarded as negative. When from 0 to 30 hemorrhages occur is is considered positive, when from 10 to 00 hemorrhages result, it is n considered doubterly positive and when the unber of hemorrhages exceeds 00, it is considered in tensity positive.

Sturis studied the endothelial sign in so cases of normal prepancy. I cases of prepancy complicated by toxemia, so cases of advanal disease, and cases of fibroiss.

Of the cases of normal prepancy positive endothelial say was noted in { per cent) and of the cases of pregnancy complicated by tenorate, if was found in \$6 (4), per cent) } In the cases of tongetia the frequency of the positive app section of the section of the

so after hysterectomy with or without similateral

cophorectoray but of 6 cases in buch by sterectoray

was done with bilateral oophorectomy it became positive in all Other investigators have reported an increase in

the frequency of positive endothelial sign during mension and the elimacterium and have say gested that the mechanism is a disturbance of ovarian function

The a thor is of the opinion that endoctine activity is not the only factor involved Grown C. Friora, M.D.

Williams, W. R.: Heterotopic Teeth and Their Significance, with Special Reference to the latte Abdominal Occup. J. Olist & Greek Brit. Emp. 934, 41–72

Texth being highly specialized and complex demail spendages which, in man, cover promailly only as the destal areader of the oval repost or as lead anomalies in the immediat visitarity of these areades, their occurrence in other parts of the body cishlenges turnition. It proves the personnen of diploprositic resolute of lead structures parasite in the body of the host and demonstrate (beer apacity for subsequent growth and development useg normal, shearmal, and neephastic lines. They do not over just saryshers but only in regions where textuded and demoid formations are fround, natular in the

latra abdominal cavity

Heterotopic teeth are the most significant constit sents of teratornats. The athor has traced the origin of these growths to asymmetrical diploments t one or the other of the extremities of the suscent ephal axis Most terstoods occur in the abdomisopelvic regions, and it is there also that most bettrototac teeth are found. These teratoids form a chain extending from the root of the primutive mesentery by way of the dorsel part of the privis and in front of the microst and cocrys to the sacrococygost vicialty. Along this entire routs beterotopic terriare relatively common They all arise in the extraperitoneal traces of the primative meembery. These genetic affigities are therefore abdomina) The taratold germs aruse before the peritonsum is evolved As the evolving aris elements in the course of growth, some of these primitive terstood prime are curried ant the dorsal part of the privis and others and the sucrecectvered reason. The author has ant the sacrococcygral respon collected and studied a large number of these tumors from various regions and has followed their develop-HATTY W FIRE, M D ment in detail

Gillerson, A. and Felentein, S. The Temperature and Vascular Reaction in the Transment of Inflammatory Diseases of the Fennile Genitals. by Heat Procedures (Des Temperature and Geissensitions to der lichandings entreedicher Erbandrages der ubbehen Gentilen mit Wesmepratechnes) (1888–1914 6

The withous have made detailed and interesting investigations regarding the reaction of the visualist and the temperature in the treatment of inframmatory discusses of the lemnic genitalist with least procedures Fifty-five women were subjected to x86 individual examinations. The examinations consisted of determinations of the temperature in the vagina and the axilla, the weight, the blood pressure, and other determinations before, during, and after

the local application of heat

The temperature in the axilla and vagina rose according to the kind of heat induction. The strongest reaction was observed after the application of a steam douche, and the next strongest, after hot sitzbaths and electrical hot air treatment. The difference between the temperature of the axilla and the temperature of the vagina, which as a rule is 0.6 degree, increased to 1.2 degrees, indicating apparently that damp heat can be introduced more successfully into the deeper regions than dry heat.

In a detailed investigation of the effect of the local application of heat on the vascular system and heart the authors found that the systolic and diastolic blood-pressure decreased on the application of damp heat, but rose when heat was applied with the electric arc light. They report good therapeutic results

from the various heating procedures

(VOY GLASEN APP) CLARENCE C REED, M D

Walther, O Lymphosarcomatosis of the Female Genital Organs (Ueber die Lymphosarkomatose der weiblichen Genitalorgane) Arch f Gynaek, 1934, 157 44

The author discusses six cases of lymphosarcoma of the female genital organs, two of which were his own. The latter are reported in more detail than the others. In five of the six cases the tumor began in the uterus and in one case apparently in the ovaries.

Histologically, five of the tumors showed medium tissue maturity (according to Ghon and Roman),

that is, the tumor cells resembled lymphohlasts and lymphocytes. In one case, hecause of the marked cell polymorphism, the histological structure of the tumor tissue, resembled that of a "retothel sarcoma" (Roulet). The lymphatic tissue of the tumors was very immature.

The growth of the tumor tissue from the uterus and ovaries progresses first hy infiltration to the neighboring genital organs. As a result, lymphogenous metastases often arise in the retroperitoneal lymphatic glands and also in groups of lymphatic glands further removed, and here and there hæmatogenous and implantation metastases appear

In none of the six cases reviewed did the spleen, liver, or bone marrow show leukæmic changes Neither were such changes found in the blood in the one case in which a blood examination was made Therefore a systemic leukæmic disease was ruled out

The site of origin of a lymphosarcoma is preexisting lymphatic tissue. In the first five of the cases reviewed it was the lymphatic tissue of the uterine mucosa, in which lymph follicles are frequently present. When the site of origin of the tumor formation is in the ovaries, it must be assumed that a lymph follicle formation with an inflammatory basis is the matrix of the tumor tissue.

The clinical picture of lymphosarcoma of the female genital organs greatly resembles that of carcinoma of the uterus, except that the tumor is much more malignant, grows faster into the surrounding parts, develops metastases much earlier, and leads to death much sooner than carcinoma of the uterus

According to the reports to date lymphosarcoma of the female genital organs occurs between the ages of forty-five and sixty-five years

(HANS O NEUMANN) CLARENCE C REED, M D

#### OBSTETRICS

#### PREGRAECT AND ITS COMPLICATIONS

Neuweller W: The Content of Thyroid-Gland Bormone in the Blood During Pragmancy (Ueber den Schildriesenhormonephalt des Bluter la der Schwasgruchatt) drak f Gyesek 1912, pt 376.

The author undertook to determine whether there is an increase in active thyroid gland secretion in the blood during pregnancy T determine the functional condition of the thyroid during pregnancy various tests for demonstrating the thyroid hormone were used. Unfortunately mone of these tests, when positive, is sione sufficient for positive Elentifica tion of a questrounble substance as the thyroid hormone. Therefore, to identify a substance as thyroid hormone with any degree of certainty. I fe necessary to obtain a definitely positive result with several tests. For his investigations the author used the following procedures (1) determination of the band metabolism (s) determination of the effect of the serum of the pregnant woman on the glycogen content of the liver of the rat (1) determination I the effect of the screen of the pregnant woman on the content of acresos bodies in the blood of the rat (a) determination of the variations in factic and content of the blood of the pregnant woman during rest and during measured exercise (4) determines tion of the Reid-Hunt reaction and (6) the Goderat

expension:
The tests were made either on prognant women or with the blood of prognant women. Most of the subjects were women with gotter who showed no defaults same of hyperthresisms of hyperthresisms.

The findings of numerous investigators and nota bly those of Hoffmann and Americano were not confirmed. The best metabolism of the pregnant women was about normal. While increases were demonstrated, they were not the rule N relationship was found between the easter and the basal metabolism of pregnant nomes. The blood of pregnent and non-pregnant rate fed on diet rich in carbohydrates led to similar decrease in the gly copen content of the liver Therefore, no difference was apparent between the two types of serum. The serum of cretme showed decidedly issue marked effect on the liver glycogen. When rats fed a diet rich in carbohydrates were injected with the serum of pregnant women the scrum had no effect upon the content of acatens bodies in the blood of the animals. The anthor describes a new photometric method of determining the content of acetone bodies in the blood.

The lactic acid content of the blood of normal pregnant women showed no increase over that of the blood of non pregnant women. Neither did it show any noteworthy increase after measured esercise as compared with that of non-pregnant women No relationship was apparent between the guiter of pregnant women and the effect of the blood of such women on the liver glycogen or the content of acetose bodies in the blood of rats N relationship between the golter and the lactic acid content of the blood of the pregness twomen could be determined. When mice were injected with the blood of pregnant women they were not protected against possessing by cetonitrile. In the Gudenat experiment the blood of the pregnant women caneed so change in the metamorphoets of the tadpoles, but in the active stages there was alight increase in resistance as compared with the effect of the blood of nonperguant women. In the inactive state no difference in the effects of the two types of blood was de monstrable. Feeding with tracer from the autorior lobe of the pituitary gland or with prolan had no failurnes on the growth or metamorphous of the tadpoles

On the basis of his flatflags the author riverts the theory of demonstrable physiological hyperthyroidism during preparacy. However he believes that, in spits of his fluidags, there is, as austomical investigations suggest, a non-demonstrable hypersection of the thyroid. Without doubt, the through gland in subjected to there are of refuse interpretations. In this fact the author sees no refuse immigred to destrouble only whether the contrast of thyroid kemores in the Bond is increased and thyroid kemores in the Bond is increased and thyroid kemores in the Bond of the hormoot is increased and is met by thyroid hyperfunction of the thyroid during pregnancy lat, because of the gravite stillags and the state of the thyroid chemand, the same yield he shope function of the thyroid during pregnancy lat, because of the gravite stillags of the his description of the thyroid during pregnancy lat, because of the gravite stillags on the thorough the definition of the thyroid children of the third of the thyroid children of the third of the description of the thyroid children by a learness and the content of thyroid hyronous for the blood.

Madruzza, G. The Work of the Urbary Riedder in Pregnancy (II levers della vescat la gravitaza) Ele stel di gioc. 334, 5 255

To determine the work of the sithary bladder Hadraux near apparatus he devased which conelate essentially of mercury momenter and a kymograph statched t as ordnaivy systemes By means of this apparatus t is possible to record the hadder distintion necessary to this to record the hadder distintion necessary to this to record the standard properties of the state of the state of the resulting hadder are considered to the state of the resulting hadders are calculated the motor activity of the hadder in gram confineration of work.

The studies reported in this article were made on nine aun-pargnant women, twenty-five women at various stages of pregnancy, and ten women in the

It was found that the amount of solution necessary to provoke a desire to void ranged from 250 to sary to provoke a desire to void ranged from 250 to 400 c.cm in the cases of the non pregnant women, puerperium from 450 to 700 c cm in the cases of the pregnant women, and from 600 to 800 c cm in the cases of the women, and from 1000 to 500 c cm in the cases of the women in the puerperium. The motor activity of the hladder expressed in gram centimeters for the three groups was, respectively, 16,000, 25,000, and

65,400 gm cm
These figures reveal 3 definite modification of While the causes of the influence of pregnancy on bladder bladder function incident to pregnancy function are obscure, the author believes that they include the anatomical changes in size and shape occurring in pregnancy and pathological changes resulting from compression during labor

Abnormal Conditions of Pregina kao, G. Annormai Conditions of Fredson and the Sugar Content of the Blood of the Mother and Child (Stati morbosi gravidica e the Mother and Child (Stati morbosi gravidica Traina Rao, G tasso glicemico materno e fetale)

The author found that in cases of normal pregnancy the sugar content of the blood of the mother during labor was slightly increased content of the blood of the umbilical cord was always lower than that of the blood of the mother Dunns the first twenty four hours of life the sugar content of the blood of the child was about the same as that of the blood of the mother In the first ten days of life it showed first a tendency to decrease and then a

In nephroses of pregnancy the sugar content of the blood of the mother was about normal, whereas in eclampsia it showed a decrease. The difference tendency to rise between the sugar content of the blood of the umbilical cord and that of the mother was more marked

In cases of acute infection with hyperthermia in than in the cases of normal pregnancy the mother the sugar content of the blood of the mother tended to increase and the sugar content of the blood of the newborn child showed a marked increase which was maintained during the first ten days of life On the other hand, in cases of chronic infection in the mother, the sugar content of the blood of the mother was not greatly changed and the sugar content of the blood of the child usually

The sugar content of the blood of premature infants was low, but increased as the child developed showed a decrease

Myelogenous and Lymphatic Leukæmias and Aleukæmias Associated with Pregnancy (Le mielosi e le linfo adenosi leucemiche Garrasl, G ed aleucemuche associate alle gravidanza)

The infrequency of leukæmias and aleukæmias associated with pregnancy is evident from the fact

that the author was able to collect only fifty-eight cases from the literature To these be adds a case which came under his observation at the Gynecological Institute of the Modena University These diseases occur practically always in multip

are and between the ages of fifteen and forty years They are divided into acute and chronic forms Of

the fifty-nine patients whose cases are reviewed, thirty had chronic myelogenous leukæmia, seven, acute my elogenous leukæmia, two, acute myelogenous aleukæmia, six, acute lymphatic leukæmia, two, chronic lymphatic aleukæmia, and two, permicious anemia In the cases of ten, the condition was not

Pregnancy does not predispose to these diseases In twenty of the thirty chronic cases reviewed, the definitely classified condition could be definitely traced to a period preceding the pregnancy by several months

Coding the pregnancy by several months of the sixteen acute cases, it began during pregnancy in thirteen, during labor in one, and before

The prospects for continuance of the pregnancy to term is unfavorable in all forms Of the acute cases pregnancy in two reviewed, pregnancy went to term in only 37 per cent, and of the chronic cases, it went to term in only 47 per cent The incidence of abortion and premature labor was high, but the author attributes it to mechanical factors such as dyspnica and limitation of space by the enlarged spleen In both twenty four chronic cases and ten acute cases in which the pregnancy went to term there were two stillbirths

Of the nomen with a chronic condition, sixteen survived, of which two became pregnant again, and five died during pregnancy, labor, or puerperium Of the women with an acute condition, seven died in the puerperium and one left the Institute in poor

Grave hamorrhages occurred in the third stage in practically all of the acute cases, whereas in the general condition chronic cases the loss of blood in the third stage was

less than that in the cases of normal women The treatment included splenectomy, blood transfusion, and interruption of the pregnancy, but the best results were obtained from the administration of arsenicals by mouth and X-ray irradiation over

The author's conclusions are summarized as fol-

Pregnancy does not predispose to these disthe spleen

2 Pregnancy aggravates both the acute and the eases

chronic types of leukæmias and aleukæmias A child born of a mother with leukæmia or

4 In the chronic forms, the mother tolerates parturition and the puerperium quite well, while in the aleulæmia is normal

It is best to allow the pregnancy to continue in acute forms death is almost certain

the hope of obtaining a living baby

6 The most satisfactory treatment seems to be the administration of arsenicals and irradiation GEORGE C FINOLA, M D

í

INTERNATIONAL AESTRACT OF SURGERY

Atta. H. g. Pernictions somiting of Prognancy
After the Commendation of State of Prognancy
After the Commendation of State of Prognancy on always a steam permission manifestation and that Asic claims that pericious remains or preg-ancy is always occupied examinations or preg-the changes found in the liver after death in case of some transformation of the contract of the case of the the changes forms in the over accer teem in cases of such pointing are dua ( starvation and loss of gat-

the fetcher.

He attributes the rounting to distorted subcreations attempt on the part of the partient to red but on the part of the partient to red but on the part of the partient to red but on the part of the partient to red but on the part of the part of the partient according to the part of the pattern to not need of the fetting. In the majority of thirty three reset of the titue in the majority is thenly three ne ported cases evidence of a psychological conflict as besent in the majority and mutous encouncer in the majority and mutous economics attended treatment by anguarion

Caffer P Death from Ectampate (Utber den 934, p. 965)

It is noteworthy that up to the present time little It is noteworthy that up to the present time utilise that is exact has been known concenting death from existing at The author therefore made a carried and examples for autor forerore made a carron and of fire fatal cases. Three of the remove deed study in the inter-cases after or the southern their distributions aboutly after an attack and in deed with campy or shortly siler an attack and in the dwint by proprious of pulmonary orderns and renal failure in clarific the first group of an itempt was made to clarify the marchanism of switch hands from in the cases of the nine group on themps was more to clerify the mechanism of sucking double from to carry the memanana or some observations from the countries of the or two between in the Brook and or cating an electron amon occurrent a new ance and neural neural networks and personal resources are resourced and personal resources are resources are resources and personal resources are resources are resourced and personal resources are resourced are resourced and resources are resourced are resourced are resourced are resourced and resources are resourced are resourced are resource combed shortly after an attack in which only the combod shortly after an attack in which only the londe phase had developed, for marked disturbances of the pulse were noted between the flack and the londer of the londer

on the house with service for a new town one was the service of death. While the first case surposts contract of death White the first case supports and analysis of the first case supports and the first case of the fi and other creatives consider in norm of the in the conductive system which counted for the to the commerce executive for the puber following the thick Eviqually the took bytes of the street in the close that cauth the front house or the street is the most considerations indicate that cardia fallars is more considerations indicate that cardia fallars is more considerations and considerations. thereare cause of death direct or after an attack important cause or death duping or after an attacked of ecclaripes than has been essented berrieber.

Theoretically soldien death a colonipus may be Theoretically suction death a coscopus may be of one of the following types:

1. Death from applying of central drags of a to

Assembly character to the tempor of the templators. Death from participation of the heart in the

tonic phase of the exampts; there are never in the 3 peaks from curves ye salar, same to anomal contents. Pectoria

4 Death from shock due either to changes in the Pages center Pascular statum in the metalla obragus center rescues source in the institute of contract of the palmonery bracket of peopers, or arranged in the parameters we are parameters to the range in the tome phase of the computer thack The author states that definite decision as t The tube states that decoup occasion as a table factors of factors imposed by for the state overcome will be recorded to purple only by corrections of the factors and surpeys during in large seaso of the factors. It is a surpey of the factors of la bich courses unanter to series series or cases topics is performed immediately after death.

In both of Catheria cases of death following and the state of t symptoms of renal fathers there was a marked one renal physical and the feet below as a marked concept, the feet below was functional apparently them the left latting was functionally latting the feet below the feet below as the state of the feet below the concept was some defined to be found that the concept was a second defined to be found that the concept was a second defined to be found to be fo these two cases were similar to the drat case in Group in which the right hithey about of advanced CROSS and Crack Properties to be traced on the concramers and types gaussians innervances of the final parency me. Firm a per tical point of view these three cases may be repeated Exist point or year tone time trees may be regarded, as cases of adding parties. The residue to ecta space to the parties of t as used of scattery states. And the course of courses with only one sidings as about in the et remen with only one remey as sooms in the series and in cases or uninterest repairment to ported in the interactive does not differ from that of person with two tideory. It is obviously not one where all two bidneys. It is corriently not true that the fundancy to develop exhausts develop apon the fundancy for from participate develop flowers: In case of eldenythe participates are the formation of eldenythe and participates are the formation of the participates are the participates are the formation of the participates are the participates are the formation of the participates are the participate HIS COST IS CASES OF CHAMPAIN AND ACTOR CHAMPAIN AN

comes so suspensive that the comments of the most severe and rapidly lated cases seen in the the most severe and rapidly fatal cases seen in the Rocal-suberg Clinic in the particol of a ) are marked reduction in the amount of renal participants as and formal participants. In conclusion the a thor mys that determination at concessor the a time says cost provinces and from the right possible before the relativistic and results and results are also as a second s of the realisonable between ecompus and remainded and require close respectation between (P. Courses). Harmon C. Marx, M.D.

Trains Raw C. The Neuromagness Up State in Fred.
(in of Fredmarky) for state convergentities have been standard.) For State 10 from State 27, The pyelitis of premency has been attributed to the Pyeum or preparety has been attributed to subsery stand with secondary lacterial invasion. The factor responsible for the stage is compression of a nector represents for the stang in compression of a state by the frapid terms I addition to this areter by the france terms 1 admitton to this mechanical process, a number of investigators here demonstrated that there is also an amount of unventuators more

cas wreter Klein, Kehrer and others timbute the pretent About A corer and others ittimate the arcters; along to a disturbance of the pericovegetative bal-

The anthor calls ttention to the fact that the interpretation as interpretation of the fact that the meany decreasy apparatus a morraneer by a necessary of the permanent of the meter depends it. a therefore redient that the sympathetics and parasympatherica buye tenerical processing for the state of the st tenction since the institute or any water in ordered quest minerce en intereear open is tone and recitation of any rector actual directly of the persons system, such as current or mannering to the calcium potagonal palance also followed the activity of the arcter

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## LAROR AND ITS COMPLICATIONS

Voron, J. and Pigeaud, H. Managed Labor The Efficacy and Innoculty of Certain Procedures Intended to Direct the Course of Labor (L'accouchement dirigé Efficacité et innocuité de certains procédés destinés à diriger la marche du tra vail) Gynec et obst , 1934, 30 113

By the term "managed labor" the authors mean labor influenced by the application of a series of procedures, some purely obstetrical, such as artificial rupture of the membranes, and others purely medical, such as the subcutaneous injection of spasmal gine and extract of the posterior lobe of the pituitary gland or the administration of quinine or chloral hy mouth These procedures are intended to accelerate the progress and diminish the pains of labor

Artificial rupture of the membranes definitely accelerates the progress of labor in normal cases The authors believe it should be done in every lahor when the pelvic measurements and uterine contractions are normal, the fetus is of normal size, and the

cervix is dilated between 4 and 6 cm

The subcutaneous administration of spasmalgine diminishes spasmodic contractions of Bandl's ring When such spasms are recognized, it is possible to inject several ampoules of spasmalgine at intervals of fifteen minutes without causing harm. In many cases in which spasms of the lower uterine segment could not be diagnosed definitely but the uterine contractions were so frequent as to he almost constant, a single injection of spasmalgine has resulted in proper spacing of the contractions and suppression of the extremely annoying lumbar pains. The authors have given as many as five injections of spasmalgine during labor without causing injury to the fetus While spasmalgine should not be administered routinely, it finds numerous indications during labor

The subcutaneous injection of extract of the posterior lobe of the pituitary gland in doses of 2 international units is incapable of producing exaggerated uterine contractions or tetany, but in the great majority of cases is sufficient to overcome relative uterine inertia developing during labor, either before complete cervical dilatation or during the second

The administration of quinine sulphate or syrup of chloral by mouth is an old practice which has been proved to be a valuable adjunct to obstetrical

procedures

These methods of directing labor were investigated by the authors by clinical and graphic methods For study of the uterine contractions the hysterograph of Fabre was used The findings demonstrated that the procedures are efficient and innocuous

HAROLD C MACK, M D

Gauss, F J The Conduct of Labor in Cases of Placenta Prævia, with Special Reference to the Scalp Forceps (Die Geburtsleitung bei Placenta praevia unter besonderer Beruecksichtigung der Kopfschwartenzange) Fortschr d Therap, 1934, 10 16

The author first compares the results of the management of cases of placenta prævia in the clinic at Wuerzburg during his directorate there with the statistics of Ammonn based on the world literature. This comparison shows that the results are most favorable for the mother in cases of spontaneous delivery However, spontaneous delivery is possible relatively seldom Cases of manual rupture of the sac may be reckoned with those of spontaneous delivery Vaginal tamponade is to be rejected as particularly dangerous for the mother The internal version of Braxton-Hicks is unfavorable for the mother and associated with an infant mortality of from 70 to 80 per cent Similarly unfavorable is the pulling down of a foot in cases of primary pelvic presentation Metreurysis (extra-ovular and intraovular) may somewhat reduce the infant mortality. but does not reduce the maternal mortality ticularly dangerous is immediate extraction after This is never done at the Wuerzburg According to the statistics based on the clinic world literature it has a maternal mortality of 10 per cent and an infant mortality of 50 per cent The results of abdominal cresarean section in the Wuerzburg clinic are poor, but this unfavorable impression may be due to the relatively small number of cases. The statistics based on the world literature indicate that results are good as far as the life of the child is concerned, but the maternal mortality is still 7 3 per cent

Recognizing the fact that the results are best when delivery occurs spontaneously, the author worked out a special method which, even in the presence of total placenta prævia, permits a sort of spontaneous delivery Following either rupture of the sac or perforation of the placenta, the infant's scalp is grasped with a specially constructed scalp forceps, a certain amount of continuous pull is applied to the forceps, and spontaneous delivery is then awaited Hæmostasis is obtained hy the constant pull on the forceps That the indications for this procedure may he widely placed is indicated hy the author's statistics which show that since the introduction of the method "spontaneous delivery" has been rendered possible in three-fourths of all cases of placenta prævia, in the great majority of which the scalp forceps were applied Of eighteen mothers, only one died and the latter was already infected at the time she entered the clinic. Of the infants-with the exception of those already dead when the forceps were applied and those in a few cases in which the forceps method was used when not indicated-75 per cent were saved basis of his experience the author urges that his method be tested in large numbers of cases

(VON MIKULICE RADECKI) JOHN W BRENNAN, M D

## PURRPERIUM AND ITS COMPLICATIONS

Michen, P and Lonyot, J.: Two Coors of Severe Post-peral Anaemia (Deux eas d'anémie grave dans le post-parten). Buil Sec d'elet et de greie. de l'er 254.24 445

Two cases of severe puerperal anemia with ne merous features in common are reported

The first sea that of woman t's entry-three years of age who came from large landly O'ber eight brothers and sisters, six were living and well and two died in inflancy. At the age of fitteen the pa tient bad crystipeles. Six has been married for eighteen months Six was somewhat pais, but her presents bettle has a permitting pool. Six between the contract of the contract co

Labor pains began at the end of the eighth month of prepaser. When the patient was admitted to the obstetreed cline on December 1: 912, she was stifflingly pain and presented thereo of gargent hemorrhage and a stight endrances on the left high and not be givent region. The breve and spleen were normal. The pains rate was op per infants, said there was a symbole marmar t the base fact heart. The order traces of allowant. The blood pressure was 60,700.

The labor terminated in the delivery of twis buywelghing 1,800 and ,0yp in Following delivery the patieness became more pronounced. The first few days after labor this temperature was normal, but the patient was very weak and begut to compare grounds revealed bulsteral hemotrhagic relucities with perfunctular and perspapilarly hemothagic players, orderns, and erodate

The findings of the blood cell count were red cells, 1,440,000, whits cells, 3 peo neutrophiles, is per cent cosinophiles, none besophiles, none jumphortes, 31 per cent. There were no knowmal or cells The blooding time was ten min that The coagulation time and the tragility of the blood cells was normal.

The intends because more server is agrive of treatment. On September so the red cell count was a quoto and the white cell count after. Under the influence of a few small translations the anemia decreased conservat. The temperature varied daily from 37 to 30 degrees C. The patiest complained of deginess and servers prescribed plane. Or Javery 3 translation of to cen was poorly telestate, but symptoms of about due to the red planes, and didican became gradually wome. Or Javery 8, the temperature rose to 4.0.5 degrees C. and the puttert became consistent. At this time is rough destroyed mirrority was heard at the base of the heart. The blood personner was rought, The liver was large and tender. A severe orderna developed in the lumbar region and the abdomen became distensied, but the abdombast walls remained soft.

A probable diagnosis of scalingant endocuries, was made and distalls therapy leading of

On January 27 the temperature fell by crist, the precordial pause caused and the apportite began to improve Thereafter recovery was repid The danatoke morner the poperate and the patient became able to get up. Walle even that the red cent cause as the propose and the whit cell count days, the contract the propose of the whit cell count days, the country of the cent of the mocase and normal. The pulse rate it fight mocase and normal from the was to get minute and there was a few mocase and normal. The probe rate it fight specials instrume at the base of the heart. However, the present the present the country of the proposed proposed to the country of the country of the proposed proposed to the country of the cell country of the coun

The second cise is also reported is dettil in summarising their findings and excelsions its a there call acception to the fact that is both of them cases on summarising are present below to one of them ten months previously and in the other two years previously. The conditions which favored the development of the severe perspectively assential wern, in one case, a multiple preparatory and fit the other antiflevior theory in reddition to a considerable loss of blood during laber to both cases the savenite was appraisately present the control of the control

The authors emphasise that it is necessary to differentiate between an anomal duriedly related and determined by pregnancy and a pre-emiting assemily appropriate the carriers syndrome characterized perserve presented justice, stoppers, the absence of polinonary signs, and a basel deathler mineral can aeroscent diagnosis endicated and are recorded indignosis endicated where the deathler which and three retiract and present senserve were deathly when and three retiract and present senserve were more effective. Assets Servascrassa M.D.

### MISCRILATEOUS

Sodano A. The Reaction of the Blood to Gutta Dispite he Obstetrine (Le reacces de seages a guitedraphot nel camps estatos). And de comment tona, 41 451

Sodano checked up the value of the gattacksphet reaction as means of despecing pregamery as it has been claimed that this reaction is quite as dependable as the reaction of Aschhedm and Iondek. He discusses the theory and technique of the test and symmatries his findings as follows:

In ten cases of advanced normal pregnancy the guttadiaphot reaction of Mayer, Bierast, and Schil-Burnamaphor reaction or mayer, pictasi, and someting was always negative in the blood of the woman, and the blood of the umbilical cord after parturition 2 The reaction was negative also in six cases of

eclampsia, both in the blood of the woman and that

3 Of six cases of pregnancy in tuberculous women, it was positive in the maternal and fetal blood in of the umbilical cord two However, it was not very definite and was less marked in the fetal than in the maternal blood 4 Of twenty cases of pregnancy in luctics, it was

positive in the maternal in 75 per cent and in the

The author concludes that even though the reaction does not always give positive diagnostic evifetal blood in 85 per cent dence because it is neither especially sensitive nor specific, it may prove of value when its technique is better developed, particularly for a quick diagnosis of syphilis

Schuman, W A New Measurement (Clinical) for Estimating the Depth of the True Peivls Am J

The purpose of this article is to call attention to the use of a new external measurement based on the

suggestions of Caldwell and Moloy and intended to

estimate the depth of the true pelvis

Since it is the anterior portion of the pelvis which presents the most frequent and distinctive charpresents the most frequent and distinctive characteristics of the male or android type of pelvis, it is quite logical to seek, in the fore pelvis, a measurement which will represent the most constant of the male characteristics, that is, increased depth In measuring the perpendicular distance from the in measuring the perpendicular distance from the tuberosity of the ischium to the diopectineal line in the pelves of fifty-three white males and fifty white females Todd found that this distance averaged 101 mm in the male and 90 mm in the female

The author takes this measurement after the intertuberous diameter has been measured, and with one end of the pelvimeter still on the tuberosity, one can or the pervaneter sum on the tuperosity, swings the other end around to a point on the upper swings the other end around to a point on the upper border of the superior ramus of the pubis directly perpendicular to the tuberosity. This distance perpendicular to the cuberosity this distance averages 11 5 cm Allowance must be made for public perpendicular to the tuberosity and gluteal fat. In the cases of persons of normal and glutcat lat III the cases of obese persons, 2 cm, build, I cm, and in the cases of obese persons, 2 cm, should be allowed for the soft parts Schuman calls the measurement which is obtained in this manner

the "pubotuberous diameter,"

# GENITO-URINARY SURGERY

## ADREMAL, KIDNEY AND DRETER

Walter, W. Wilder, R. M., and Explore R. J. The Separated Cortant Syndrome with the Pres-man Communication of Two Communications of Two Communications of the Press. Suprarmal Cortical Syndrome with the Franchistics of Ten Cours. And Juny 914, 100-

The records of ten cases in which the suprasumal increases of on case in which the supremaid cortical volutions as present are reversed. In the past trajectory, as most observed are reversed. In the cases of the cortical horizone, of fetting parties have reversed on which compressions than the been operated on with one operative death from su shbattarilà scuqental came an apparently accounts trunc. Austernative death. In the tenth case, in both hon-operators donn in the team base, in the operation was performed in 924, death october the special of the superioral transferred special positions of the superioral special There was one toon wast present to be suprareas insurance or This stallity might have been presented it active suprareas contact between had been valuable for importry on In fire of the case, Experiment imports use in one of the case, supersual
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the trentgenofram of the selfs turner disclosed disthe consumers and the second s the appearend glands is advantable whenever the deputies expense of braintests famous a bessent statement coapera stantone in operand and an advanced powerta race and activation and activation and activation activation and activation activation activation and activation acti crimite ordence of statistics tumor is secured.

The beared attending the rimoral of tumors or re-The ontario according the removal, or tumors or rescreen or retain bearings or so beclerates:

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He states that injection of the pathenal lymonia. facile during retrograde prediction of the particular from predictions of the state of the facilities most presented bysometry in modern bloss from the cases he reports and eleven cases collected from the takes on reports and cover cases concerned in hitrature, he draws the following conclusion

E. The phenomenon of predof aphatic backfor can be distinctly demonstrated by injection of the can be manuscry permonantator by injurious or as rems and perment (proposition forms p) edgraphy. While this phenomenous has been observed to like term of the control of the standard of the s are not been enturery mechanical and performal lymphatics

A impretion of the result and personal rempetated of participantly occurs not only in the present of participantly occurs and only in the present of participant, and also have a superior of participant as anomalo or any mine we a communication to yield J. The mechanism cocurred in the preferrible demonstration of the communication between the roders, and the west and verticent Jerushites is before and the tensil and betterny limborates in deputed Apparently however injection of the presentation of the pr Application to the to benefits of spirited whomeloss renal lymphatics

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6 Overdistration of the renal polytical excessive Pressure during the preference parts and extraction of factors in the myecton of the real and permeters are presented in the preference of the real and permeters are presented in the permeters of the real and permeters are presented in the permeters of the permeters are presented in the permeters of the permeters are presented in the perme In conclusion the author says that his findings emphasize the need for further careful pielographic studies in cases of partistic and non parasitic chilura of renal origin to determine the exact point of communication between the lymphatic and urinary systems and to increase our knowledge of the renal lymphatics.

C. Traytes Steates, M.D.

Calef, C. Chromocystoscopy with Phenolsulphonphthalein in the Diagnosis of Kidney Function the cromocystoscopia alla fenolsul fontaleina dal punto di vista diagnostico e fun annale). Irch dal di ur 1, 1034, 11, 40

The author emphysizes the value of chromocystoscopy with phenoisulphonphthalein in the diagnosis of kidney function and presents tables showing his findings in tuberculosis of the kidneys calculosis, pyonephrosis nephropthis pyclitis pyclonephritis, hydrorephrosis various other conditions of the urinary tract and diseases not involving the innary tract such as appendicitis and cholecystitis.

When the kidness are normal the die is climinated in from three to five minutes. In the presence of a pathological condition its climination is slower. When its elimination takes place in seven or eight minutes. Fidnes function may still be considered good. While there may be slight retardation of elimination by the normal Fidnes when the other Fidnes is seriously diseased elimination requiring more than eight minutes usually indicates defective function.

When elimination by the normal kidnes is retarded inther tests should be made before radical operation is undertaken but when chromocy-toscopy gives normal values no other tests are necessary

Phenolsulphonphthalein is put up in sterile vials ready for use. Therefore it is unnecessary to prepare the solution fresh each time. Phenolsulphonphthalein is eliminated by the kidneys alone and therefore particularly yell adapted for the determination of renal function. As it does not cause turbidity and is not deposited in a layer on the floor of the bladder, it does not interfere with eystoscopic examination. The theory that, as homaturia and various dicesses of the bladder increase the red color of the tissues, the elimination of phenolsulphonphthalein, which is also red, it may be difficult to observe, is not valid as the red color of phenolsulphonphthalein is distinctly different from that of the tissues.

In all of the author's cases chromocystoscopy with phenolsulphonphthalein give results in agreement with the clinical findings. Caled is therefore convinced that chromocystoscopy is of great value and that phenolsulphonphthalein is preferable to the other substances used for chromocystoscopy.

MEDRIA GOSS MORCAN, M.D.

Vermooten, V, and Neuswanger, C II The Effects on the Upper Urinary Tract in Dogs, of an Incompetent Ureterovesical Valve J Urol, 1934, 32 330

In the hope of obtaining dilatation of the ureters and incompetence of the ureterovesical valves preliminary to an attempt at experimental reconstruction of the valves in dogs, the authors repeated the work of Gruber. Gruber reported that in the dog the amount of valve excised determines the degree of incompetence and this in turn bears a direct relation to the degree of ureteral dilatation and hydroneph rosis obtained.

At intervals of from seven to eight weeks after the valve operation and just prior to the sacrifice of the animals the authors made existograms with the use of a 20 per cent solution of sodium iodide. Their observations and conclusions, which were fundamentally different from those of Gruber, are summarized as follows.

1 Complete excision and incision of the irreterovesical valve in the dog will always result in incompetence manifested by regurgitation of the vesical contents up the irreter

2 Regurgitation of uninfected urine up a normal ureter vill not cause ureteral dilatation

3 Regurgitation of infected uring up a normal ureter will not cause ureteral dilatation

4 Regurgitation up an infected ureter will result in ureteral dilatation

s "Ascending infection does not necessarily occur viten infected vesical contents are regurgitated up a normal utter

6 Uretural infection may occur as the result of

ulceration of the uniteral epithelium

7 Phis infection may progress by direct extension up and down in the loose areolar tissue of the tunical propriation of the mucosal vithout the aid of the lymphatics.

S If this infection extends up under the epithelium of the mucosa lining the renal pelvis and calves pychtis results

o Under such circumstances the ureteritis is usually limited to the tunica propria and does not extend into the ureteral musculature

10 In no instance was perioreteral inflammation observed C Travers Stephen, M D

Uhle, C.A. W. Gonococcai Pronephrosis. Report of a Case, with a Review of the Literature. J. Urol., 1034, 32-335

Uhle reports a case of gonococcal pyonephrosis in which the diagnosis was proved by smears, cultures, and fermentation and serological tests. The pus was obtained by prelotomy. Uhle cautions against making a diagnosis by means of stains alone because by this method the gonococci may be confused with other diplococci.

The infection is frequently due to a mixed strain. The pathological changes do not differ from those of other acute or chronic infections except that some times the number of plasma cells is greater than in non-specific infections. The portal of entry is doubtful.

Of the cases of gonococcal renal infections pre viously reported in the literature, only twelve met Uhle's requirements for proof

TRANK M COCHEMS, M D

Romand, A.I.A. Contribution to the Study of Som INTERNATIONAL ABSTRACT OF SURGERY them. A. I.A. Continuous to the bettery or com-cess of the Diverse (Contribute allo study or com-stance desirentery) and study of the Arch. stat. Stat. Stat. State 934,

Someth reports sing cases of atenuals of the intra-mental or vessely Reported of the artest. All of the manufactures were for a large transfer and the state of the particular ways.

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The treatment indicated is certaral dilutation

HIADDER, URETHEA, AND PEAUS PRINT A ROM, M D

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as seems at southery.

The authors first case was that of woman strip The subbut first case has that of woman strip on years of age who died seeth bour a siter her ad mission to the boursal. The strate in this case had been substricted to the control of the case had been substricted to the case had b mission to the boughts! The price in this case had content of the separament of the reasonable conductor of the case had discontinuously of the price of the conductor of the separament of the carbon the separament of the carbon the separament of the nature was sound unrarseo by 400 cm or turbed uring. The urine sound charged with \$11 furner uning the cine source charged with grad of the bladder felt like a species proposes was cheered with apure cheeren proposes with a sen of roc occurses with rece a shooting proposes. This sam of roc occurses with rece a shooting proposes. The main mucous was covered with what conviction reaction anging in this from that of a partial of the colds have been sented with a partial of the colds have been from the colds are the colds and the wall of the colds are the colds and the wall of the colds are the cold are the colds are the co

The neather nonten in water three the gas remains the epithelium was deficient. The submissions and the epithetiam was consent. A paragraphic communication, ordered, and for muck showed marked congression, course, was to nitration by round cent, componing, pushes cent and add history and inversities. There were recent and old facings of the states and many open spaces. Some of the latter spaces of the states of the states of the states of the states of the spaces o here improved Attention Court of the form which to the peoples cop commons which temested attent to the peculia can command which remembers the same form was found in

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Smith, A. J. D. The Use of Radium in Correspond of the Stacking Rev. 11 514, 524 The nature calls standing to the part diverged of opening and the standing to the part diverged of opening the standing to the tendence of contract of the tendence of contract of the tendence of contract of the tendence of In comm in the treatment of currencess of the connect.

If fairway that carrinomata thought to be he It befores that correlements thought to be before the property of the property or the Officerope, it invost removal or the removal many by distinctory by the superposite root and the have by the sector by the super pour root and the hitroduction of raden seeds into the base of the EURODECEM OF REGISTER SETS AND ASSESSMENT ASSESSMENT AND ASSESSMENT AND ASSESSMENT AND ASSESSMENT turner When ration peaks are most rentiferous management. About by taken after carriedge from and about the peaks are the fact that all of them are not. Robot managements place for in the database are not. Robot managements placed to the contraction of the peaks are not recommended to the contraction. The remainder memorial residual for the remainder contraction.

actor from the manner are passed patheons at the first exhaution. The operative mortality of at the first emission. The opening motivary as partial experiency and transplant are does not record to be from 1 to 1 for emission of the control of the co in concursos buito cita some gamera octa-regida of radion therapy. On the basis of has ex-perience be historic that the implication of notes. seeds by means of the Calmeode spockt perinted or moss action by means or the systematic account or manner.

In others the season should be can in outnerer in others too sensor sensor is percented by the suprapulse route Infirming Paroachen by the supropulse route tantirunal cardinous should be reacted as far as possible cardiname anomal pe reserve as for as possioner care most be taken in selecting insperable Cases for radium treatment

Selvetal. Co. Concer of the Urethra in the Male (Selected delivertra machin) Arch Sel March 1816.

Primary tumors of the urethra are care Some the Plumary tunions on the strengt and tank concerns.

Report on such people are by This policy in \$11, report on many anoparation by a nationers in our could be come of the came of the case of the state of the st methral cancer this that of easier is general, a unknown, but is many cases geographes and in currently but is many taken geometrices and in acquain seem to play an important role in the development of the immor Russi Imbert, and Taxtoo found concerning in 60 per cent of care and con sound found for m 40 per cent or cases and to per cent or cases and the re-Legacy found it in 40 per cent administrator from ported cases of alleged contact infortion from some with smitted cureamas. Because of in content rate senses cartesions declare of an experience infantiatory dature, some investigators curous measurements matter, some mycong and believe thet trethral attricture and the frame are descriptions occurs acretors and the traums and

Carcae of the unite anathra is most common part may seed to terribe. to cen the first of fifty and strey year, but is often faces the first of first and sixty years, out a once found eather. It develops most frequently in the

perineal portion of the urethra where the normal epithelial changes are most marked and strictures Before the tumor reaches the are most common perore the tumor reaches the external surface of the body it is manifested only by an indurated mass of varying size along the by an indurated mass of varying size along the urethra with or without changes in the adjacent After the skin has been perforated the lesion presents the usual characteristics of an ulcerated neoplasm to which may be added secondary area neophasm to which may be added secondary There-infection from contamination by the urine after, the tumor infiltrates and destroys the adjacent

Histologically, the tumors may be of mesenchymal or epithelial origin Benign connective tissue tumors or epicician origin peningu connective ussue cumors are rare Malignant tumors, which are more common, are usually found in young persons and may ussues mon, are usuany tound in young persons and may occur even in babies. They include round-cell and occur even in papies i ney include round-cent and spindle cell sarcomata, melanomata, endotheliomata, lymphosarcomata, and epithelial tumors Malignant epithelial tumors may originate in either the epithelium lining the urethra or from some of its glands They spread by direct extension Metastasis to the nodes takes place late According to Wasserman, it occurs in a third of the cases Visceral metastasis, which is more frequent, occurs to the lungs, the which is more frequent, occurs to the fact that the testicle Selvaggi calls attention to the fact that the lymphodenosethy in the groups of the fact that the lymphadenopathy in the groins is often inflam-

The early symptoms, which are those of urethral obstruction, may be attributed by the patient to an Later, the symptoms are on venereal infection paies, the symptoms are those of an infiltrating, ulcerating, destructive lesion complicated by infection and often by a lesion complicated by a lesion c matory old venereal infection urnary fistula Early diagnosis may be difficult, especially in cases with a pre-existing stricture Urethroscopy, cathetenzation with an olive tipped bouge, or rectal examination may yield valuable unaguosuc iniormation in the uniciental ungranosis, prostatic and perineal abscess, benign strictures, prostatic and perineal abscess, prostatic and perineal abscess, benign strictures, prostatic and perineal abscess, prostatic and perinear and perinear abscess. nosis, prostaut and permeat abscess, penign stricture, inflammatory lesions, and benign tumors must diagnostic information be excluded An exact diagnosis is possible only by

The prognosis of urethral cancer is poor as death usually results from a urinary complication. How, usually results from a ulmary complication. From ever, it is greatly improved by early diagnosis and

The most satisfactory treatment of cancer of the male urethra is radical surgical operation. In a cercorrect treatment tain few cases of well circumscribed lesions resection of the urethra may be done, but in most cases amputation of the penis, often with amputation of the scrotum and dissection of the inguinal nodes, is the operation indicated. In some cases prostatectomy or resection of the bladder may be necessary in addition In many cases only a palliative operation for relief of the symptoms is possible In this group, irradiation in addition to the operation is of value The author believes that dependence can be placed on radium or X-ray irradiation only for palliation To date, the incidence of cure has been reported as

about 10 per cent

Selvagg reports a case of fungating tumor of the urethra in a man fifty-seven years of age who had a The diagnosis Radical operation supplepost-gonorrhœal urethral stricture mented by roentgen therapy was followed by a good result.

Vintici, V, and Alterescu, H A Case of Malignant Non-Carcinomatous Tumor Primary in the Non-Carcinomatous 1 umor rrimary in the Corpora Cavernosa of the Penis with Visceral Corpora Cavernosa of the rems with viscorat ligne non carcinomateuse primitive des corps caver neux du penis avec métastases viscérales et osseuses)

In a review of the literature the authors were able to find only thirty-five cases of lesions similar to the lesson in the case they report in this article Their case was that of a man twenty-two years of age who first noticed a small firm tumor on the age who arst noticed a small min comor on the lateral side of the penis near the base in November, Interial side of the penns hear the base in November, and in 1932 The tumor rapidly increased in size, and in February, 1933, when the Patient first consulted the authors, it involved a considerable portion of the pens and there was pain on urination A diagnosis of plastic induration of the corpora cavernosa nosis of plastic mouration of the corpora cavernosa was made and irradiation treatment was given When the patient was seen again on April 24, 1933, he had lost 12 kgm in weight, the local lesion had increased considerably in size, the penis had become increased considerably in size, the pents had become conical and rigid, and there was involvement of the penoscrotal region and perineum The urethra, penusciona region and permeum and epididymis corpus spongiosum, vas, testicles, and epididymis were apparently not involved, and the skin overlying the lesions was apparently normal was normal, but erection was extremely painful General examination disclosed numerous metastases to the subcutaneous and deep tissues of the forearm and the legs, around the liac crest, and in the lungs and bones Laboratory examination was negative Two attempts at biopsy were made, but were incomplete because of hæmorrhage Aspiration of one of the nodules disclosed numerous round cells which were undoubtedly malignant Because of this finding and the extreme vascularity of the tumors the authors concluded that the neoplasm was a round-cell sarcoma developing in the fibrous tissue septa of the corpora cavernosa

The patient was given further X-ray treatment and sent home. He died several months later, soon after the occurrence of pathological fractures of the right humerus and tibia

# GENITAL ORGANS

Carli, C Torsion of the Spermatic Cord (La tor sione del funcolo spermatico) Arch ilal di chir,

Carlı reports a case of torsion of an undescended testicle in an infant eleven months old, reviews the hterature on the condition, and discusses the pecuharities of his case

Three days before his admission to the chair, the child, who previously had been well, began to vorsit and the mother soted that the undescended testicie in the right groin had become larger firmer and apparently painful. The application of hot fomenta-tions by the mother was followed by periods of relief with intervals of exacerbation of the pale. The swelling in the groin remained bout the same size

On physical examination the left testicle found to be of normal size and situated in the scrotum. The right half of the scrotum contelned no testicie. In the right groun there was a mass the sleeof a pigeon s age which, when manipulated, caused the child to acream

A diagnosis of torpion of the operantic cord of an undescended testicie was usade and immediate oper ation advised. At operation the right testicio was found in the right inguinal canel. The funice ragiralls was markedly distanded and contained a serohermorrhagic field. The textocke and candidgenia were purplish. The spermatic cord was rotated 180 de-grees from right to left. The torsion was above the yaghtst sec. The acrotal ligament was above the herms was present. On account of the degenerative changes in the testicle, orchidectomy was performed Recovery was uneventful Histological examination of the texticle showed as:

interstitial hemorrhagic infiltration and reduction in the number and necroses of the sembellerous

tupales Carli states that torsion of the opermatic cord before the first year of age is rare, only about ten cases being on record Extravaginal torsion is also namenal, only about takenty cases having been re-ported. He reviews the possible mechanism of terrior Perra A Rose, M D

Sjörtrand, T Acute Tuberculous Koklidymitis and Epididymo-Orchitle. Acts threry Sound 934 75 329

The a thor reviews 68 cases of acute toberculous epididymits and epididymo-trichits of striden oract in which the condition was accompanied by fever deterioration of the general condition, pain, and rednest of the scrotal skin, and is many respects resembled chancelly scate septic and generousal englidymits and spelidymo-orchitis. To compare this form of the disease with tuberculous epided militis and epidolymo-orchitis in general, he reviews also soo cases of male genital tuberculous collected from the literature

Of 300 cases of tuberculous epidodymatis and epididymo-orchita, 7 per cent were acute from the beginning and presented the ctinical pacture observed

in the author's cases The acute form of the discuss may occur at any

po, but to 48 per cent of the reviewed cases it developed between the t entieth and thirtseth years Heradity is not an important factor. In a of the reviewed cases the cause was traums in 5, over exertion in a unfinement in a gooderhood arethration, and in rold.

Tuberculous changes in the prostate and armissi vesicles could be palpated in 66 per cent of the scrite cases and he per cent of the total annaber of cases of tuberculous epididyenitis

Tubertulous changes is other organs could be demonstrated in ay per cant of the acute come and 40 per cent of the total number of cenes. In only a iew of the scute cases were these changes serious

The acute and apparently serious form of gentui tuberculosis has a more favorable prognosh as regards life, but a greater tendency to become bilateral then tuberculous epidsdymitts in general

In two thirds of the acute cases a probable dise nosis can be made by rectal palpation and in some of these it can be confirmed by the demonstration of tubercle bacilii in secretion promed from the prostate

If the diagnosis is made early operative treatment can be harlted to epididymectomy. When the condtion is advanced, castration must be performed

To ascertala the factors determining the prognosis as regards life and recurrence in tuberculous colddymatis and spidldymo-orchitis in general the author grouped the 500 cases reported in the literature et cording to the time that had elapsed between the onset of the disease and the patient's admission to the hospital and determined the personning in each group in which there were pulpable changes in the prostnet and seminal vesicles, the personning in which the condition became bilaters, the personning in which tuberculous changes occurred in other organs, and the mortality

The prostate and sentinal vencies were involved in 60 per cent of the scarte and substrate cases. In the chronic cases the incidence of such involvement in

cressed with the duration of the cheeses. Recurrence and bilateral lavolvement were men frequent in the cases with roberculosis of the pros

tate and seminal vesicles The mortality depended entirely on other inberculous changes in the body

A.: Abscreet Advenal There in the Marsella, Spidistyrusis (Sel reports) de comette externombre aberrante and 'apadistras). Anche and di med 1934.

The author reports a case of abernat adectal cortical times in the head of the specialysms and revacure the literature on the condition

His case was that of man thirty seven years of age who died of pulmonary tuberculous. The adread these in the epidolymis was found t autopay The nodale comisted of calls of the adresal cortex surrounded by a fibrous capsule.

From his review of the literature the a thor roschoice that accessory advened touce is more or less common It may be found in the vicialty of the adrenal gland freelf, to the kidney or liver along the spermatic vein, is the vicinity of the gential phases, in the overy, in the region of the epidodymia, in the pelves, and in the region of the abdominal sympa thetic nerves Adresal times around the abdominal sympathetics consists of medallary calls and has the

135

characteristics of chromaffin tissue, whereas aberrant characteristics of curomanin ussue, whereas abertant adrenal tissue found elsewhere consists almost exadrenal tissue found elsewhere consists clusively of cells of the adrenal cortex The reported cases of cortical and medullary tissue in the same

The frequency with which adrenal cortical tissue aberrant nodule are rare and doubtful is found in certain areas and organs, sometimes at a distance from the adrenal glands, is explained by the embryological vascular relationship of the adrenals and by dislocation of the adrenal tissue during early development before the two portions of the adrenal are fused into one gland On account of involution are rused into one giand on account of involution and obliteration of many of the embryological vessels and oblice action of many of the emotyological vessers supplying aberrant adrenal glands with resulting auppryring auction aurena gianus with resuring atrophy of the adrenal tissue, accessory adrenal tissue is less common in adults than in infants a few

Aberrant adrenal tissue maintains its function This has been demonstrated clinically by cases in which the adrenal glands were completely destroyed months old without the appearance of Addison's syndrome or

The aberrant adrenal tissue may undergo neosymptoms of adrenal insufficiency plastic changes and develop into neoplasms such as

hypernephromata and Gravitz tumors

The Origin of Cryptorchidism (Die Entstehung des Kryptorchismus) Moszkowicz, L

As early as 1927, at the convention of Alpine surgeons at Innsbruck, the author expressed the opinion that cryptorchidism is the result of delayed sex dethat cryptorchidism is the result of delayed sex determination due to an "intersexuality" in the sense

in which that term is used by Goldschmidt In this article he presents further evidence in sup port of his theory In a deformed newborn infant there was found a peritoneal duplication uniting both undescended testicles which could be described only as a ligamentum latum and had undoubtedly prevented the descent of the testicles To solve the problem, the author examined a large number of embryos He found that in embryos measuring 30 mm from vertex to coccyx sex characteristics were still not evident macroscopically, but that in embryos 40 mm long sex differences were distinctly apparent In female embryos of the latter length the gental cord appears as a rather thick transverse ridge between the bladder and the rectum In male embryos of the same age this cord is very much thinner and in the center is notched and bifurcated

As is well known, there occurs in the female em bryo an extensive fusion of the muellenan ducts. As a result, the wolfian ducts which are enveloped by the same mesenchyme are drawn with them toward the midline By this traction the cranial portion of the gubernacula and the caudal portion of the pronephron and the generative glands are also drawn closer to the center of the body. The generative glands are thereby moved from their vertical to a more horizontal position and are gradually with-

drawn from the influence of the gubernacula latter develop in their cranial portion into the ovarian ligaments and in their caudal portion into the round ligaments The mesenchyme is changed into the

ligamentum latum

In the male embryo large portions of the muellerian and wolffian ducts remain ununited, this fact accounting for the previously mentioned notching and bifurcation of the gental ridge Accordingly, the gubernaculum 15 not drawn toward the middle and maintains its full efficiency with respect to the generative glands It grows to a thick cord which generative gianus at grows to a time total which the facilitating the enlarges the inguinal canal, thus facilitating the charges the inguinal canal, thus laciliating the descent of the related testicle. The latter is merely hanging on a pedicle which is formed from parts of the muellerian and wolffian ducts and gradually becomes more and more attenuated If a disturbance arises during this stage of growth—for example, if, in a maturing male embryo, female developmental characteristics at first predominate and therefore a progressive coalescence of the muellerian and wolffian ducts occurs—it will lead to the formation of a ligamentum latum binding both testicles and preventing

Asymmetry of this process would easily account for the unlateral inguinal testicle and for dystopia their descent

If these theories are correct, still other deformities representing more marked disturbances of this type testis transversa may occasionally be found in cryptorchids In the female, many deformities may be accounted

for similarly by the predominance, for some length of time, of male developmental characteristics in the

As these abnormalities may appear in several developing female embryo members of a family and are therefore inheritable, developmental anomalies may sometimes be found in female relatives of males with cryptorchidism

Since the author has searched for such deformities in operations for retention of testicles in the inguinal canal he has observed in the case of a fifteen-) ear-old boy with bilateral cryptorchidism a shining, tendonlike thickening in the hernial sac which started from the medial margin of the testicle, entered the abdominal cavity in the form of a shining, tendon like cord, and was apparently a rudimentary ligamentum latum A ligament uniting both testicles and corresponding to the ligamentum latum was found also in two autopsies

(W MANDEL) NATHIAS J SEIFERT, M D

MacKenzie, D. W., and Ratner, M. Malignant Growths in the Undescended Testis A Review of the Literature and a Report of Two Cases

The authors report two cases of malignant growths in undescended testicles They state that the occurrence of such changes in either the abdominal or the inguinal undescended testicle is rare, and that the arguments advanced to prove that undescended testicles are predisposed to malignant changes are based on statistics which often are contradictory

They have found that malignancy develops in an abdominal testicle in only 1 of fo,coo cases of abdominal cryptorchildson. They therefore believe that orchidectomy should never be performed merely

to prevent malignant degeneration

The pathological character of growths in under scended testicies is the same as that of growthe scended testicies is the same as that of growth in the location of the testicie II the testicies is in the grots the patient compilates of a meas and feeling of the patient compilates of a meas and feeling of the closes there are no groyteen suited later, when as abdominal mass becomes apparent. Often the symtoms due to metastases are tale fart it appear.

In cases of malignant growths in undescended testicise MacKensis and Ratuer precede orchidertomy by a course of deep X ray therapy and follow it by several courses of deep X-ray therapy given over long period of time

PROFE M. COCKERS, M.D.

Donati, D. Fibrosarcoms of the Tunica Vaginatia of the Testicia, a Clinical and Pathological Brody (Fibrosarcom della reguela del tempolo. Studio chaico ed anatomopatologico). And sed di ned 2014. 47

Connective these tunous originating from the fibrous tunies which surround the territies or from the sufficient and throat bases which separate and the sufficient surround the territies of the surround tunous control of the surround tunous of the order of tunous of the territies of the testicle as often very difficult to drive because could tunous of the order and tunous of the best better to the testicle as often very difficult to drive because could tunous of the order and tunous of the territies that the true shouth of the testic, and tunous of the tunies territies around the posterior facial of the epididy-sufficient order However tunesm of the cost particul testing temporar tunesm of the cost of the mach tunous of the cost of the cost

of the testicis. In discussors of the histology of transes of the spermatic cord and tradic variables, there have here been described arready type of transes or origin, fibrecasts, specially, myromatic, must be seen origin, fibrecasts, specially, myromatic, must be seen origin, fibrecasts, specially, myromatic, must be seen origin, fibrecasts, and seen original transes have a size course and their histological transmittion sakions shows a very defaults active committion sakions shows very defaults active.

atypical prohiberation of the culis.

Refore recovering the floatings of his study of tomors of the absorbs of the study because in the first probability has promise an entire of these shouth. He states that the tumers variable properts, the tends forces, and the unterposed culting tisses may all be the sites of neoptation. Tumors involving these absolute strays here an inculting consett and providently Sometimes are not all the control of the probability of the strain of the control of the strain of the culting the culting the strain of the culting the culting the strain of the culting the

Donati reports a case which he considers noteworthy because of the rarity of the type of temor found, the presence of multiple turnor messes, and the sites of the neopheros. There were several neopleans in the tunics vaginalls propris, involving especially the parietal leaf surrounding the epdidymis and cord, and also a number of muses between the tunios propris and the tunios fibross External t the tunion vagonalle commune there were master of fat excapsulated by a fibrous sheath The patient was man seventy years of age he first noticed a slowly growing symptomics home in the left testicie two years before he extend the bospital At the time he entered the hospital the becolesm had reached such also that its a cight caused discomfort Exploratory puncture of cretic area of the tumor evacuated about to com of fluid which contained many jeucocytes, a number of crystals, nutserous large round cells with cherprotoplasm and ithout vacuoles, and some cells with irregular outlines in which grapular fatty dogeneration was seen. At operation the tursor the left testicis, all of the acrotal suc, and a considerable portion of the cord were removed. The tuttor measured re cm in length and 8 cm in thickness, and weighed you gm. On inferoscopic examination it was found to be fibroms abowing areas of fibre surposes with polymorphous cells

LOUDER T LEGET M.D.

### MISCELLARBOUS

Wolgenzinger and Colonn: The Search for Rach's Bacilli in the Urine (De la recherche des healts de Kach dans ies urues). J. d'urel, mai et der

1454-17 459

The authors review (he hour principal methods for funding tubercle bacills in the unne (r) threet small-nation after contribugations and attaining () in

oculation of gumes pigs, (3) examination after enrichment, and (a) culture or microculture. The reported incidence of positive results from direct examination in proved cases waiter from 14 to

direct examin 57 of par tent

According to Manon, palmes-pig incombation yields posture results in no per cent of casts. However Calmett has called trenton to unstances of spontaneous unknowneen sujection of gennee page and rabbat, thereby demonstrating that this section is not free from the possibility of error. Another desidentings of the procedure is the time t requires. The other pages and procedures to the time to require their substances of the procedure is the time.

The authors object to marroculture because it is difficult and requires from also to twenty-serva days

They recommend must highly the methods of concentration, particularly the Ellerman-Erianders method of untodiperation which they supplement by direct estimutation of the softment in fourteer, years they have obtained positive results by the combination of these two methods in 53 45 per cets of case. They believe that these methods are sufciently accurate to rule out or prove the presence of unilateral or bilateral renal tuberculosis Their tech-

nique is as follows

All utensils are carefully cleansed prior to use. The urine is centrifugalized at 4,500 revolutions for fifteen minutes. The sediment is stained with hot Ziehl-Nielsen stain for five minutes and then destained with nitric acid and alcohol to which a little picric acid has been added and counter-stained with methylene blue The picric acid is used to decolor the smegma bacillus A careful systematic study of the preparation is next made. If the microscopic examination is negative, the Ellermann-Erlandsen procedure of autodigestion is carried out in the following manner

The sediment obtained by the previous centrifugalization is diluted with a 1 400 solution of sodium carbonate and incubated at 37 degrees C for twentyfour hours It is then centrifugalized for fifteen minutes at 4,500 revolutions The sediment is again diluted with the solution of sodium carbonate and placed in a boiling water bath for five minutes. After cooling, it is again centrifugalized for fifteen minutes at 4,500 revolutions and the sediment stained as

described for the direct examination

The authors conclude that the method is rapid and certain if the described technique is followed and if a careful study of the stained smears is made by a com-MAX M ZINNINGER, M D petent bacteriologist

Le-Roy, C M Colon Bacillus Hæmaturia (Le ematune da colibacillo) Arch stal di urol , 1934, 11 311

The author reports twenty-five cases of hæmatuma due to lesions in the urinary tract produced by the

colon bacillus. In such cases the colon bacillus reaches the urinary tract from the intestine by way of the blood stream It may enter the blood stream through extremely minute intestinal lesions Hæmaturias due to the colon bacillus have no particular characteristics which permit their differentiation from hæmaturias due to other causes. In the majority of cases of colon-bacillus hæmaturia the lesion responsible for the bleeding is in the Lidney, but not infrequently the bladder is involved either alone or with a Lidney

Hæmaturia due to the colon bacillus may result from the toxins alone, under which circumstances the organisms are infrequent in the urine, or may be associated with a pure colon-bacillus bacilluria or a more or less intense pyuria. The fact that colon bacilli often pass through the urmary tract without producing a pathological lesion has not been explained It is possible that when this occurs the

virulence of the organisms is low

The pathological changes produced by the colon bacillus in the urinary tract vary from a simple renal congestion with zones of interstitual nephritis to the development of frank suppuration with the formation of abscesses in the Lidney or bladder. The so called purpura of the bladder mucosa often seen on cystoscopic examination may represent such an inflammatory hamorrhagic lesion

The diagnosis of colon bacillus hamaturia may be difficult Bacteriological examination of specimens of ureteral urine is most important. In general the prognosis is favorable. The treatment should be directed principally to the intestinal tract, the source of the infection A Louis Rost, M D

## SURGERY OF THE BONES JOINTS MUSCLES, TENDONS

CONDITIONS OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC.

McGew W H., and Harbin, M. The Rôle of Bone Marrow and Endowtenn in Bone Responsation. An Experimental Study of Bone Marrow and Endosteal Transplants. J. Bone & Joint Swg. 254, 6 816.

Osteogenic properties have been ascribed in all portions of bone, but especially cortical bone with or without perioateum has been advocated for bone transplants Apparently no one has previously sug grated that marrow these alone might be used as a free graft to stimulate or hasten outcomests. The authors resected portions of the fibrale 4th periostown from the legs of several dogs and transplanted curetted fragments of antogenous tibial bone marrow int the defects hew bone began to form within from six to fourteen days At sixty days, a medallary canal and cortical condensation with feelow to the shalts were postent in the rocaternorram le control fibule in which similar resections were done without the use of transplants no bone regeneration potented CHEFTER C GOT M D

Bru E. A., and Hench P S. T berculous Rhen mathem. A Résumé. J Base & Jaca Surg 934, 6 859

The condition discussed by the authors is a form of polyaribility sumpleting is some cases acute thengratic fever and in other cases chronic atrophic rthritis, but bearing some suggestion that its cause may be tuberenious. Familial tuberculous asso-cated with visceral tuberculous, the desconstration of Loch bottli in the systemial fluid and the blood atteam, positive results of sporulations of guinos pies with joint fluid, and a some cases the presence of typical joint teberculous before councident with, or subsequent to the development of the polyarthritis have been considered evidence for the diagnosis of t berculous rheumatism. The condition is thought he doe t tuberculous toxis from distant focus. fittrable virus, an ttennated form of tuberele bacille, or an allergic reaction. Therefore true tuber cles are not an expected finding and, when present, are attributed to superimposed tuberculous arthri-tia rather than to tuberculous rheumatism. Focal collections of round cells, plasma cells, and history tes somewhat resembling tubercles and Aschoff andules unlated instances of perrons not used thick coing and vacuolization of the vessels and the preseace of giant cells and endothelial cells have been returded in reports of studies of the synovial membette in cases of tuberculous rheumatism. These have been interpreted as representing either a transtion stage between simple inflammatory tustes and

inhectabell or an allergic manifestation of the hurse ill typical toberculous attribute develops in a light which was previously the site of stropks poly, and then the strong control of the strong may be due to transformation within the joint of the viraform of briefling agent into viralent taberch health. The virus form is thought to be responsible for the forme simplement of triberchieds or patient with a trophic poly and the strong procedure patients with a trophic poly and the strong procedure and the strong poly and the strong procedure of stargement of reporal lymphoid these in a second or a furth gaince pig may lead to the predetion of typical tuberculous and to the demonstration of the presence of Koch beath is the viscon of the

A large number of competent Investigation do not recognize the syndrome of toberculous thomatine, arguing that there is no adequate disclaim nethod of identifying it, no consistent prostigmontaphic, experimental, or thoratory reflection of the condition, and so consistent demonstration of the tradition, and accretist internaceon carbonized characteristic internaceon carbonized characteristic internaceon carbonized characteristic internaceon carbonized characteristic internaceon carbonized characteristics.

acteristic microscopic pathological changes A statistical study of a series of go cases of scatt theumatic fever and ago cases of chronic atrophic polyarthritis revealed so significantly higher inci-dence of familial tuberculous or associated viscent taberculous than that found in group of 250 control cases. Of series of 25 cares in hich disgraphs of chrome trophic polyarthritis was made and the pethological characteristics of a scaple joint were determined by microscopic examination of tieres or inoculation of guines page, definite toberculous was found in 8 In the remainder there was no female evidence of an intermediary stage between simple in flammation and tuberrulous. In each of the I cares, taberculous involvement of the joint was suspected prior to examination of timers or inoculation of guines pigs, but its association with multiple arthrithe was confusing. Further investigation of cases of acute rheumanic fever and chronic trophic poly arthritis with regard to tuberculods as a cause will be recolled to determine the acceptance or re fection of the syndrome of tuberculous riseumstians The others conclude that, as yet, there is no incotrovertable proof of such an entity

Ferguson, A. B. and Rosenth, M. B. Cora Yans, and Referred Conditions of the Hip. I. Cassification and Corribation of These Conditions, H. A. Study of Seventy-Five Cause of Comp Plans. J. Seas of Josephur. 1934, 6, 18, 189.

I the first part of this article the a thors discorthe chandlession and merication of must plans, shipping of the piper femoral applicates, astrochondrian dissection, certain types of chronic degenerative arthritis, and a condition not previously identified as a clinical entity, to which the name "coxa magna" is given. All of these conditions result from a circulatory disturbance in or adjacent to the head of the femur, which is referred to as "ischæmia"

In the authors' cases of cova plana and related conditions is chæmia was found to be due to the following factors (1) inflammation in the hip joint, (2) inflammation or tumor adjacent to the joint, usually in the neck of the femur, (3) fracture or epiphyseal separation in the neck of the femur, (4) trauma to the head of the femur, or (5) tension of the soft tissues about the neck of the femur

The type of condition caused by ischæmia at the head of the femur depends upon the vulnerability of the parts of the hip. In the first decade of life the substance of the head of the femur is more susceptible to the influence of a circulatory disturbance than the growth disk, whereas in adolescence, the growth disk is more likely to be affected by such a disturbance. Vulnerability of a given part of the hip occurs two or three years earlier in girls than in boys

Ischæmia due to inflammation in the hip joint may cause coxa plana, slipping of the epiphysis, coxa magna, or degenerative arthritis. Coxa plana due to such ischæmia is the most common type. The onset of symptoms occurs between the third and twelfth

years of age

Ischæmia dne to inflammation or a tumor adjacent to the joint may cause coxa plana, slipping of the epiphysis, coxa magna, or chronic arthritis. Coxa plana from such ischæmia occurs usually between the fifth and tenth years of age, whereas slipping of the epiphysis occurs between the tenth and sixteenth years of age.

Ischæmia due to fracture or epiphyseal separation at the neck of the femur may cause coxa plana and

possibly coxa magna

Ischæmia due to trauma to the head of the femur may cause coxa plana or osteochondritis dissecans

Ischæmia due to tension of the soft tissues about the neck of the femur may cause coxa plana and may be a contributing factor in ischæmia due to fracture or epiphyseal separation at the neck of the femur or an additional factor, favored by the method of treatment or immobilization, in conditions arising from ischæmia of other types. It occurs usually between the first and sixth years of age and most often in cases of congenital dislocation of the hip in which open or closed reduction has been attempted or obtained

Coxa plana occurring between the ages of three and twelve years is variously described in the literature as "coxa plana," "Legg's disease," "Perthes' disease," "Calvé's disease," "osteochondritis deformans juvenilis," "pseudocoxalgia," and "aseptic necrosis of the upper femoral epiphysis". It is characterized roentgenographically by flattening of the crest of the upper femoral epiphysis with widening of the joint space and changes in the density and evenness of ossification of the epiphysis and the proximal end of the neck of the femur

In the seventy-five cases of coxa plana reviewed by the authors the condition followed subacute arthritis Sixty-four (85 per cent) of the patients were males Both hips were involved in eight cases, the left hip alone was affected in thirty-six, and the right hip alone was affected in thirty-one

In twenty-six (46 per cent) of fifty-six patients with a history of tonsillar infection, disease of the tonsils was found at the time of, or shortly before, the onset of the coxa plana In four patients other infections were discovered. Thirty-three per cent had had an infection several months before the onset of the coxa plana These facts suggest that infection may be a causative factor

The age at the onset of the symptoms in the hip ranged from three to twelve years. The average age was seven years. The onset was between the ages of six and ten years in 61 per cent and between the ages of three and six years in 26 per cent. Therefore the condition began between the ages of three and ten years in 87 per cent. Of the cases seen before the residual stage, the onset occurred after the age of ten years in only three.

The predominating initial symptoms recalled by the patients were limping and pain, each of which occurred in more than half of the cases and both of which were present in nearly half. Limitation of motion was noticed by one-fourth of the patients Disability of consequence was uncommon

The course of coxa plana may be divided into three stages—the active, the reparative, and the residual Each stage generally begins and ends later in the bone than in the soft tissues

The active stage is manifested clinically by softtissue inflammation with pain and limitation of motion and roentgenographically demonstrable softtissue swelling. These manifestations are often observed before changes in the bone are demonstrable roentgenographically or pathologically.

The reparative stage is characterized clinically by soft-tissue healing and scarring associated with a decrease in the pain and spasm and an increase in the range of motion. Its termination is marked by absence of pain and spasm Ordinarily it is completed clinically much earlier than roentgenographically

The residual stage is characterized clinically by the absence of spasm. It precedes by months or years the roentgenographic and pathological residual stages which are characterized by the completion of repair in the affected bone. Shortening and atrophy usually persist. In many cases the patients are able to take part in strenuous exercise.

In the cases reviewed twenty-one hips were exposed at operation Six were in the active stage of the condition, two in the early stage of repair, and

the others in the late stage of repair

In the active stage the synovial membrane was always thickened, soft, fragile, very vascular, and often irregular with villus formation. The periosteum was usually thickened and ædematous. The capsule was usually thickened, slightly ædematous, and more vascular than normal. The contour and ap-

perrance of the visible portion of the cartilage of the femoral head were normal. The synorisi fluid was not abnormal. Microscopic extendation showed that the synorial membrane was usually ordemators, contained clusters of lymphocy her and as often villors. In most cases the capsule and perfectuum

were chronically inflamed.

In the high exposed in the reparative stage the sportal membrane in smooth, justistic, tough, this, to sportal membrane in smooth, justistic, tough, this, to sportal membrane in smooth, justistic, tough, this, to sport should be smooth, and capsule one searched and the second capsule one searched and the second of the bead of the feeture at flatter, in only four cases, but in several it had problemated the series with the development of pannia. The strength was otherwise normal in appearance set are at the second be seen without dislocating the high Go indexecopies are not the second contains the second instance there was evidence of degeneration in the carnings from the search of the lead of

cultures taken from four hips resulted in no growth. The Mantoux or you Purquet test was done to twenty five cases. The results were positive in six, doubtful in two and topactive in sevention.

Com plans is characterised reentgenographically by the development of areas of increased density within the femoral head followed by irregular oselfcation and subsequent repair in the previously dense areas and accompanied by a decrease in the vertical diameter of the affected areas, overdevelopment of the circlings, and broademing of the head on seek

In the case of a child het ween the agen of three and techer years is bo hump and comparison of pair in the hip, thigh, or here the hip should be carefully examined for limitation of most consumerations, and for the case of internal rotations and abdomains, and for the case of the

The general treatment of cora plans should include the elimination of foci of infection and treatment of active infections that may arise

treatment of across amounted that may arraw miles in the treatment to rest and relief from which there for A: rule rest is heat obtained by keeping the child face that the treatment of the rest is heat obtained by keeping the heater of make traction may be used for short time for their retrief. When necessary, it may be reapproved which traction may be used for short time for their retrief. When necessary, it may be reapproved with a contract of the possible of the state of the rest of the rest is a state of the rest of the retrief of the rest of the retrief of the retr

not be done in either the active or the reparathe

The authors describe the techniques of the shalles operation. In fafteen hips in which this was done repair in the bone began immediately no new arms or accrossed described results developed, the reparative stage was greatly shortened, and the clustest condition was improvent. The hip result because perfectly areas almost the contract of the contra

The drilling operation is as yet experimental and its value has not been fully determined. It is technically difficult and associated with the possibility of serrous damage to the hip. However, Hit is properly performed when the inflammation in the hip is not too active it will hasten repair and pervent farther

deformity of the head of the femur

In the reparative stage, no treatment is indicated Artivities which would came severe wreach to the hip—such as jumping from a height, stating, and playing football—should be prohibited. If there is much imitation of motion, rest in bed for two or three months should be tried.

In the residual stage, treatment should be directed only at the result of the disease. It may consist a subtrochanteric estectomy reconstruction, arthroplanty or emerica: None C. Button, M.D.

## SURGEST OF THE BOXES, JOINTS, MUSCLES, TENDONS, STC.

Bossan, E. J.: A New Attempt at Treatment of Chronic Outcomy alitin. J. Boss & Josef Surj. 1934, 15 305

Bonan states that in a true of asspite lose necrosis anywhere in the hody may be accreasibly treated by connecting the necrotic segment with an adjusted lying agenuate to bone by official channels. Good relating the control of the control of the conlarge Culvi-Perthee disease, out-ocheodirals desecises. Opposed Schulter disease, intracequate interior of the neck of the fenous and appring and appred upper fenous of physics. In all of these cossistence of the neck of the fenous and appring and apprentice of the neck of the fenous and physics. In all of these cos-

dishous asguite hones necrosis is the main feature. The observations of Arkunen, Hemmater, Saston, Freund, and Cordon have demonstrated definities that the chief latter in the promaneous hesting precess of samplic hones accordis brought shout by are cause in substitution of Hump hones for the accruze bone which is effected by the slow presentation in these defenses and carpillates of the adjuscent high hones. The drifting of channels into the servetic arms of the state of the servetic and the servetic arms. However, the servetic arms of the servetic arms of the servetic arms of the servetic arms. However, the servetic arms of the s

In comparing the characteristics of aneptic boss nerrous and necross of bose following septic processes such as suppurative outcompristion, Bossas found that, in the last analyse, there as no difference between them. Because of this faming and because the natural leading precess us both sneptic and septic necrosis appears to be analogous, he concluded that septic necrosis might respond favorably to the treatment found effective in aseptic necrosis. He therefore attempted to induce substitution and revitalization of necrotic areas of bone in chronic osteomyelitis by connecting the involved areas with living bone segments by saw cuts and drill channels. He reports his first two cases in which this procedure was carried out. When the patients were re-examined one and three quarters years and one year after the operation, respectively, the result was found to be successful.

NORMAN C. BULLOCK, M. D.

Delchef, J, and Roudil, G The Treatment of Spastic Paralyses (Le traitement des paralysies spasmodiques) Rev d'orthop, 1934, 41 434

The authors review at length the various methods of treatment used for spastic paralyses, surgical and non-surgical. They note that the most common cause of spastic paralysis is intra-uterine infection, chiefly syphilitic, and obstetrical trauma. Children with spastic paralysis tend to show spontaneous improvement. This should be aided by re-education by exercise, massage, and physical therapy. These measures are the indispensable basis of any form of treatment. Cases of spastic paralysis should be treated by

those especially trained for the work. In the milder cases treated from the beginning, reeducation and physical therapeutic measures, combined with anti-syphilitic treatment and sedatives as indicated, are sufficient. In some cases with marked motor incoordination the use of suitable orthopedic apparatus facilitates re-education. In cases of longer duration with established deformity the use of orthopedic apparatus should be supplemented by such operative measures as lengthening of muscles, tendon and nerve resection, or tendon transplantation. especially on the upper extremities, and surgical correction of bony deformities. In severe cases in which spastic phenomena are marked and those complicated by choreo athetosis or spasmodic torticollis an operation such as nerve-root resection or ramisection is indicated In the treatment of any case the measures must be carefully chosen and wisely combined. Both pessimism and too great optimism as to the final outcome must be avoided. ALICE M MEYERS

Bosworth, D M Autogenous Bone Pegging for Epiphysitis of the Tibial Tubercle J Bone & Joint Surg, 1934, 16 829

The author reports four cases in which autogenous bone pegging of the tibial tubercle was done for epiphysitis which did not respond to conservative treatment. In this procedure a skin incision is carried downward over the lower third of the ligamentum patellæ and tibial tubercle and then extended medially downward. The periosteum is split and laid back. Two match stick bone pegs 4 cm. long are cut with an electric saw. The central cut divides the two pegs and slints obliquely so that each peg is larger at its base than at its tip. Two holes are drilled—one, close to, but not touching the

proximal tibial epiphyseal plate and slanting slightly upward and outward, and the other distal to the plate and slanting slightly upward and inward. The pegs are then driven in so that they set snugly and the projecting ends are cut off. After the operation the leg is immobilized in a long plaster boot for two and a half weeks. At the end of that time walking is permitted. The author has found that in cases of epiphysitis of long standing such treatment results in healing and ossification of the tubercle.

ROBERT C LONERGAN, M D

Adamesteanu, C The Static Conditions of the Foot After Astragalectomy (Les conditions statiques du pied après l'astragalectomie) Rev d'orthop, 1934, 41 485

Astragalectomy was first practiced by Fabricius de Hilden in the sixteenth century. The functional results of the operation are in general not entirely satisfactory. There are three points at which the tibia may be mortized into the tarsus to form a new tibiotarsal joint behind, above, and in front of the sustentaculum tali.

In a study of the statics of the foot according to the rules established by Destot, the author found that, according to those rules, the retrosustentacular operation is followed by talipes calcaneus, the suprasustentacular operation, by slight talipes calcaneovalgus, the presustentacular operation, by no disturbance of transverse equilibrium but by a slight tendency toward equinus Clinically, however, there are factors that alter these rules which were established by studies on the cadaver. In a study of chinical cases the author found that the retrosustentacular operation caused talipes cavus and the suprasustentacular operation slight talipes cavus and varus, whereas after the presustentacular operation the position and function of the foot were practically normal.

To obtain the best results from the presustent acular operation some modifications should be made in the classical procedure. Section of all of the ligaments inserted at the tips of both malleoli is absolutely necessary, and sometimes also section of the posterior part of the capsule. The inner and lower border of the joint surface of the scaphoid should be removed with bone forceps to permit firmer fixation of the bone in the mortise, and the peroneus tendons should be replaced in front of the external malleolus.

Audrey Goss Morgan, M. D.

## FRACTURES AND DISLOCATIONS

Bancroft, F W The General Question of the Emergency Treatment of Fractures Ann Surg, 1934, 100 843

The author presents a brief résumé of the work done by the Committee on Fractures of the American College of Surgeons This Committee functions through three main agencies the annual meeting of the American College of Surgeons, where a fracture symposium is held, the annual meeting of the General Committee on Fractures, at which the reports of sub-committees are presented and remonal groups. By these means adequate first-slid methods for the handling of fractures are being taught not only to doctors and medical students, but also to boy stouts, undertakers, and police and fire depart ments and an ttempt is made to reduce the period of disability and economic loss in cases of fracture BARRARA B. STERROR LI D

Sant, E.: Fractures of the Upper Extremity and the Shaft of the Humerus in Childhood (Le frature dell'extense sepriore della da5a cell'estero nell'alassis) Che che 311, ro 43

The author presents a detailed analysis of fractures of the upper extremity and the displyers of the humerus in childhood based on statistics from the Children Surgical Chale of the University of Florence over a period of twenty years. Of a, 1 fractures seen in the period from 909 to 935, 465 were fractures of the humerus. Thirty-eight of the latter lavelyed the pper extremity 64 the disphysis, and 363 the lower extremity. Santi discusses the mechanism, pathological anatomy symptoms and differential diagnosis of fractures of the poer extremity of the humerus. As treatment he advocates. vertical or horizontal traction with weights maintained for from fifteen to twenty days and followed by muscle re-education. He discusses epithysesi. separations, fractures of the disphysis, and obstat

BARRADA B STRONGE M D

Soto-Hall, R. and Haldeman, E. C.; The Treat spent of Fractures of the Carpal Scaphold. / Bone & Joint Surg 914, & Bat.

Instated fractures of the carpal scaphold are of three types. The most common is an entirely burnartheriar fracture occurring through the middle of the body or neck. The next most common is an extraarticular avulsion fracture of the tabercatty which beals with bony union in five or six neeks. The less common is a fracture associated with severe con-

minstion and deformity

Recent fractures of the carpal scaphold should be treated by fixation with the wrist is extended of from to to so degrees and complete radial feeden and with includen of the thumb in the position of caresion and abduction. The immobilization should be maintained for a minimum of from seven to abse weeks, but with liberation of the thumb at the end of five weeks. For cases of long-continued nos union the uthors advocate the dulling of multiple boles through both fragments. The postoperative treat ment should be the mose as for fresh fractures. Of seven cases treated in this manner body union re sulted in five. For fractures with marked commissiontion and deformity the a thors advan complete end-sion of both fragments. They believe that after tests removal it is executive to immobilise the wrist in conplet ulner flexion for I least five or six works to allow the cavity to become filled with strong cicatelcial tieses and to permit the ligamentous and surcuber attractures to obtain proper attachment.

BIRRIES & STORON, M.D.

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS mm of copper are used for the nerve trunks. The

Dixon, O J Experimental Studies in Vascular Re-BLOOD VESSELS

pair J Am M Ass, 1934, 103 1129 The author concludes from experimental observations that in injuries of the sigmoid sinus the intravenous use of a stnp of viable sternocleidomastoid muscle is the best means available for the control of hæmorrhage and may be expected to be followed by recanalization with complete restoration of the func-

tion of the sigmoid sinus as a blood carrier J THORNWELL WITHERSPOON, M D

Gilbert, R, and Babaiantz, L Roentgen Therapy of Vasomotor Disturbances of the Extremities (La roentgenthérapie des troubles vaso-moteurs des extrémités) Res med de la Suisse Rom, 1934, 54

For the treatment of vasomotor disturbances of the extremues the authors recommend roentgen irradiation of the sympathetic nerves in addition to other forms of therapy They review reports of the results of roentgen irradiation of the sympathetic and parasympathetic nerves in clinical practice and This treatment has been used for neuralgra, pruntis, and dermatitis In experimental studies it has been found that the excitability of the nerves and the tone and motility of the capillaries can be altered. In the authors, opinion the results are best explained by the assumption that the roentgen therapy is neither constantly vasoconstricting nor constantly vasodilating in its action, but may be either one or the other, depending on which effect is necessary for restoration of the proper balance of the disturbed vasomotor reflexes. The dosage required is small. The authors call the described irradiation "functional" or "indirect" irradiation to differentiate it from the direct irradiation used in the treatment of neoplasms which aims at the destruction of cells Two general methods are used (r) irradiation of the sympathetic trunks in the cervical or lower dorsolumbar region or of the peripheral branches in the axilla, groin, or popliteal space, and (2) irradiation of the suprarenal regions and the adjacent ganglia The authors present a table based on 5 reports covering a total of 155 cases of vascular disturbances of the extremities of many kinds (Buerger's disease, Raynaud's disease, gangrene of all types, erythromelalgia, acrocyanosis, and trophic disturb-The number of patients cured or benefited

The technique of the irradiation varies In genranged from 60 to 96 per cent eral, semi penetrating rays moderately filtered with from 2 to 5 mm of aluminum are used for the peripheral nerves and similar rays filtered with 05

total dose varies from 500 to 800 r spread over from two to three weeks and averaging 175 r per treatment per field Such a series of irradiations may be repeated after an interval of two of three weeks As a rule, irradiation of nerve trunks is done first and if amelioration of the symptoms is slow, peripheral irradiation is done For the upper extremities the irradiation is given over the cervical spine and the first and second dorsal vertebræ, generally through 2 lateral portals For the lower extremities it is given from the tenth dorsal to the first lumbar vertebra over an area 12 cm wide on each side of The authors state that they have tried the method the midline

in 11 cases (3 additional cases are added in a footnote) Six cases are not reported in detail for various reasons (failure of follow up, death, treatment given too recently, patient admitted to the hospital in extremis) The remaining 5 cases included I case each of obliterating artentis, circulatory disturbances with painful cramps and gangrene, senile gangrene of the heel, trophic ulcer of the foot, and diabetic gangrene All were treated by irradiation of the suprarenal region, and in all a cure or marked improvement resulted Photographs of 2 patients showing healing are presented. The article has an extensive bibliography MAX M ZINVINGER, M.D.

Carlson, H A Obstruction of the Superior Vena Cava An Experimental Study

In experiments on dogs the author obstructed the superior vena cava above, below, and including the azygos vein to determine the tolerance of the animals to such obstruction, to measure its effects on the venous and arterial pressure, and to note the

He found that the dogs tolerated obstruction above the azygos vein, but that, particularly when it collateral circulation was produced in one stage, they did not tolerate obstruction below the vein. Immediately after the obstruction of the superior vena cava, marked cyanosis of the upper part of the body resulted. This disappeared gradually in about twenty-four hours as the collateral circulation developed. Eventually the collateral circulation compensated for the obstruction and the animals appeared normal. The paths of collateral circulation are described in detail. When the obstruction was above the azygos, the azy gos and its branches formed the chief trunk for the return of blood to the heart from the upper part of the body and the lower abdominal collateral veins were not very important. When the obstruction included the azygos vein, the superficial and deep abdominal vessels and the vertebral plexus were of much greater importance. As the asygns as blocked, the blood returned to the heart through the inferior vena cava. The renal and internal spermatic veins are more important in man than in animals

The venous pressure was increased as a result of the obstruction, but as the reliateral circulation as satablished it returned t normal immediately fler the obstruction the arterial pressure dropped t

shock level. Carlson believes that these changes are probably of not much chicked significance because in clinical cases the occlusion usually occurs slowly CLASTACS C. REED M D.

Herrmann, L. G., and Reid, M. R.: The Connerse tire Treatment of Arterioscierotic Peripheral Vascular Disease. 1 a. Seeg. 934, so 750

Herrmann and Reid analyze seventy & a unac lected cases of arterioscleroms obliterares in which they used I'avaex therapy (passive vascular exercises consisting of the throic alternation of accentive and positiv pressures about the affected extremity or extremities). They found that four complete cycles (from atmospheric pressure to positive pressure to pegative pressure and back again) of alternating pressure from pregative pressure of about 50 mm to a positive pressure of from to to 4 mm of mer cury all bring about the greatest increase in the rterial circulation with the least damage to the tissues of the extremity. I one complete cycle of filters accords positive pressure a used for fire accords and acquitive pressure for ten seconds. The frequency and length of the tre tments depend entirel pon the argency of the condition, varying from three to seven bours a cel to from four t eight hours a day

"Of the patients whose cases the reviewed, there of the patients whose cases the reviewed, there can be completely relieved of their major symptoms, and thany to per cent propriet that they had been greatly benefited. In the cases of four patients who had defailed gangeries of the foot whose they were admit ted to the boupstaft the gangerie was limited by the treatment and sufficient collateral arternal development of the terminal particular and development to permit amportation through the tool with presspent, protoperative beating of the because as adequate collateral circulations could not be entablished by the P were treatment.

The benefits of the treatment era least obvious in patients with extensiva oblitection of the action in patients with extensiva oblitection of the action of the feet and most triking in those as which the pathological changes are insufed proceedingly to the major or secondary riterial pathwars, especially those with rapid occlosure of the riery by emboliant, transat, surgery or thrombous

FIRESPER M Cs 1104

Barmerd, W. G., and Berbury W. M. Gandrene of the Fingers and Toes in a Case of Polyarteritis Nadom. J. Fath in Reserved. 934, 58 15

The mai feature of the case reported, that of a girl eight years old, as the condition f the ex-

trendides, bich persented a patchy purphil decoloration. The discoloration was most meried in the fingers and toes, where it as very dark, but occurred also in the elbows, knees forearms, of occurred also in the elbows, knees forearms, of the coloration of the elbows of the elbows of the dermans in the muscles and a slight effusion is both

here joints. The radial and dorsthin who is now a properly and the corner of the corne

nuclears. Postmortem examination disclosed arterial changes which cannot from necrosis of patches of hyper trophied intima to necrosis of the greater part of the all of an artery and from elight inflammatory builtration t an inflammatory lesion of great severn) The radial artery was found alled by a thrombes Its latima was greatly saolien partly by ordena sad partly by multipleation of its rells, and its media was ordenatous and partly accretic. The pulmonar-rieries also ed comparati ch little pathological change. The authors regard this fact as of again cance because the arteries most commonly affected in polyarthritis are the muscula arteries. They suggest that it may give some close to the cause of the discase. The characteristics of the lesions led them t conclude that the condition may be a virte or an allerme rather than a bacterial disease.

MITTER JO YESTS, M.D.

lance B. 31 Thromboile of the lette of the Lower Extractly and Polinomary Embolism of a Complication of Traums. An J Surg. 914

Vancy discusses the incidence of thromboals of the velos of the lower extremities and pulmonary emblisms in cases of trausac collected from the Ofice of the Chief Medical Examiner of New York City

The injuries were the common injuries matrixed in large cities. Seventy-two per cent were due to a tomobile arcidents. The lesions varied is seventy from sevents fractures of the peters or the shall of the fermy it mere cont usons and brasions of the ri

The interval which elipsed bet cen the occur rence of the transmand anders death from polmonary embolium varied from four to fifty four day. The emperimental enged from ten tot enty for day. This admissis that the influence of the transma on the prediction of the thrombons and the embolium was not sunful it error one.

Of sinct two cases in which the trauma briefer the bones and soft parts all one of the lower extration, thrombons was found in the cim of the corresponding lower extremity in thirty-two In fourteen, sponding tower extremity in thirty-two in tourteen, no thrombus could be found. Of fourteen cases of injury in which some other part of the body besides injury in which some other part of the body besides the lower extremities was involved, thrombosis of the femoral vein was found in nine. These figures the removal vein was jound in time these ngures suggest that a traumatic lesion near the femoral vein the femoral vein was found in nine suggest that a traumatic lesion near the femoral vent or its tributaries has an influence on the production or its tributaries has an innuence on the production of thrombosis in that yein However, a similar of thrombosis in that year flowever, a summar thrombosis occurred in the femoral veins in cases of injury not involving the lower extremities, in which the influence of the trauma must have been more remote Moreover, femoral vein thromboses and fatal pulmonary embolism occurred in non-traumatic cases of all kinds Therefore the basic cause must be some factor other than physical injury

Microscopic investigation of the thrombosed veins of the lower extremity, both in the traumatic and the non-traumatic cases, disclosed that in almost all instances a phlebosclerosis, a subacute phlebitis, or a periphlebitis of greater or less degree was present peripineurity of greater of less degree was present. In many cases these lesions probably antedated the trauma In others, the effects of the trauma, whether general or local, probably precipitated the inflammation and produced an aseptic thrombosis which eventually resulted in the fatal pulmonary

It is evident that thrombosis of the veins of the lower extremity followed by pulmonary embolism nust be considered by the surgeon as a Possible commust be considered by the surgeon as a possible com-plication of fractures and other traumatic lesions, pheation of fractures and other traumatic response especially in individuals who have reached middle age The development of the thrombosis is insidious The patient seems to be on the road to recovery when, without warning, the pulmonary embolism when, without warming, the pulmonary embousing develops and death occurs suddenly in an attack of

Deaths from pulmonary embolism are responsible for many interesting medicolegal tangles, especially in accident cases acute asphyxia in accident cases there is always a uniformed of opinion with regard to the part played by the trauma in the development of the complication Obviously a bruise of the leg is a less serious injury than a fracture of the lower third of the shaft of the femur, but both types of injury may be followed by pulmonary embolism. In the author's opinion the trauma pre cipitates the process, but the basic cause is a diseased

or injured vein in the lower extremity

BLOOD, TRANSFUSION The Problem of Cadaver-Blood Transfusion (Das Problem der Judin, S. S., and Skundina, G. Leichenbluttranssusion)

The cases reviewed were treated at the Emergency The conditions consisted chiefly of injuries from street accidents, acute gastro intestinal hamorrhages, and abdominal pregnances Institute at Moscow On account of the great number of blood transfusions which were necessary it was difficult, and sometimes impossible, to secure living donors for all cases. The

idea of using cadaver blood was based on the animal experiments carried out by Schamov in 1928 The Emergency Institute proceeded cautiously in this direction Experiments with regard to the viability of the blood were undertaken first. The transference of oxygen was studied according to the method of or oxygen was studied according to the method of Barcroft. It was found that, in animals, this was possible by means of cadaver blood as well as by possible by means of canaver phoon as well as by means of hving blood. The authors report an experiment performed on a dog in which an amount of blood equal to 50 per cent of the body weight or broom equal to 50 per cent of the body weight was withdrawn Despite injections of sodium chloride solution the animal's condition became progressively worse After the transfusion of cadaver blood complete recovery resulted and there was an increase in the erythrocytes and hæmoglobin

Only the blood of persons who had succumbed to street accidents, angina pectoris, and other factors causing sudden death was used Blood from cadayers with crushed limbs, intestinal wounds, and severe cranal injuries, and from the bodies of persons who had been drowned was not used. Before any cadaver blood was transfused a complete autopsy was done to rule out the presence of chronic diseases such as tuberculosis, syphilis, and tumors The greatest length of time that was allowed to

elapse after death before the blood was withdrawn The method of blood withdrawal was important An incision was made in the internal jugular vein and a glass cannula with rubber tubing was six hours Juguiai your and a guass camula with the Trendelen-

Investigation showed that the blood came only burg position the blood flowed freely from the superior and inferior venæ cavæ The average amount obtained was about 11/2 liters blood was led into sterile flasks where it was mixed with sodium citrate It was then kept on ice in dark flasks Ice retards the proteindecomposition and the exclusion of light preserves the colloids Hæmolysis began only after thirty days On the average, the blood was used up to three weeks after it had been bottled, but even when it was older it

The blood was tested to make sure that it was caused no deleterious reactions free from bacteria A Wassermann test was made and the serum reactions and blood groups were de

To date, the Emergency Institute has performed 350 blood transfusions with cadaver blood advantage of this method is that I,000 c cm of termined blood or more can be given, which is impossible when a living donor is used The reactions were in no way different from those with living blood Reactions occurred in 21 per cent of the cases There were 5 severe complications (2 cases of hæmolysis, I of septic phlegmon at the site of venesection, I of anaphylactic shock from repeated transfusion, and

The method was used particularly in cases of severe gastro-intestinal hæmorrhage to prepare the r of air embolism) severe gastro-intestinal national to properties the patient for operation or to render operation possible in doubtful cases without delay By means of it, 70 per cent of the patients were saved. Several cases are reported. The method was used also for shock The mortality from shock in the Emergency Institute was high. By means of cadaver-blood transfusions to per cent of co patients sere saved. How rees, it was necessary to use very large quantities of blood (from ,coo to 1, you c cm ) before and effer the operation and sometimes during the operation. It was notable that in some of the patients with

gastro-intestinal hemorrham and some of those with shock the hemoglobin content of the blood had

fallen to from 15 to 1 per cent. Cadaver-blood transfosions were given also in 44 cases of carcinoms with the result that in some of

them the patient was rendered operable (Fave) Petter Startes, M.D.

LYMPH GLANDS AND LYMPHATIC VESSELS

Tenefi, S. Experimental Studies of the Healing of Wounds, New Formation, and Autoplastic Transplants of Lymph Nodes (Recherches et pérmentales sur la grainson des plaies, sur la mioformation, et sur les greffes autoplastiques des gangbone hymobeteques) Lyes cher 934, 3 54 From experiments on guines pigs, the ethor

draws the following conclusions

Nounds of lymph nodes heal by the formation of a connective these scar which never disappears and is never replaced by normal lymphatic timese Where all of the lymph nodes have been exite

pated new lymph nodes may sometimes appear after a certain length of time. These lymph nodes represent, in general, a hypertrophy of rudimentary lymph nodes present in those regions or, possibly in very exceptional cases, hypertrophy of adinose and hax compectave these

Autoolastic transplants of complete lymph ander with their experies never "take. A tophistic transplants of lymph nodes without caproles survive for a certain length of time, but eventually disappear ALROY S SCHWARTDRAW M D completely

Designation, A. U. The Etiology of Lymphoblestoms. J Am. M Atr gy 43 1032

The exact character of the pathological conditions collectively designated by the term "lymphoblas-toms still ender the physician" Although these conditions have been the object of extensive study pathologists are still far from agreement regarding the esceptial and differential characteristics of Hodg kin's duesso and lymphosarcoms. Some of them resard these conditions as essentially malignant and as different phases of the same process, while there insist that Hodgkin's disease is an entity quite distinct from lymphosescoms

First of all it is emential to consider the immediate cause On two previous occasions Desjardins has suggested that the factor immediately responsible for lymphoblastomatous hyperplassa of the lymphobl structures is chronic infection. This infection may be tuberculous, pyrogenic, or syphilitic. In fact, its type is of little consequence provided the injection ement is present for a sufficiently long time. The doration of the infection may vary considerably in different patients. If the history of the patient's physical ailments is carefully and pensistently mquired into evidence of infection of long standing will be obtained in the majority of cases However, if the historical inquiry is to yield the desired in-formation it must be pursued with method.

Of particular significance in Desjardan's observa-

tion that the chronic infection has invariably affected a part of the body drained by the group of lymph nodes which first gave indications of lymphobiatomatous hyperplasse. The practically coestant as sociation of infection and primary lymphadenop-athy in the same region and on the same side of the body can hardly be regarded as colacidrace If this association were the result of chance, the anatomical relationship would not be so consulted.

A definite and unprestionable history of chronic

infection in a region drained by the nodes first affected with lymphobiastoms cannot sives be obtained Fallure is especially prone to occur is the cases of farmers or laborers who are obliged to work hard and steadily and who pay little tteaton to what they regard as minor aliments patients of limited intelligence and patients in whom the carry manifestations of lymphoblastoms have been confined to the abdominal structures, such as cholecyclifs, unstentifs, or pyrionerphritis, may not stirred the partient's attention. Chronic infection therefore appears to the author to be the immediate cause not only of Hodgkin's duceso and lymphosarcoms but also of the various forms of irakemia. However even if this eticlogical relationship is andersable, predisposing factor is required to provide a suitable background for the immediate cases. Such an additional and essential element is probably to be found in hereditary predispodition or tendency of the lymphold theme to react in certain way to various nozious influences. Desjardins reports a few case excountered within a limited period

In conclusion he says that if chronic infection is the immediate cause of lymphoblastoms, as he assumes, it behooves the physician actively to combut infection wherever it may appear and by every means in his power to prevent such injection from becoming, so to speak, endersic. Patients should not be allowed to harbor indefinitely teeth, toonis, or gall bladder or other structures that are infected The importance of this conclusion is all the greater when the ancestors of the patient are known to have refered from lymphold disturbances

Brunachwig, A., and Kandel, E. A Carrelation of the Hierological Changes and Clinical Symp-ness in Irradiated Hodgkin's Disease and Lymphobiastoms Lymph Nodes. Edinley

414 3 3 5 brief presentation of their views of the ξ'n stickery and gractic relationship of Hodgela's du-

## SURGICAL TECHNIQUE OPERATIVE SURGERY AND TECHNIQUE! POSTOPERATIVE TREATMENT

Beta, IL: Statistics on Thromboats Covering a Paon the constitute on a structure on a structure of the field of Twenty lears (so John Threatheach Arch f Aud 1 and 934, 89 6ap The author review statistics on thrombour cor ering the twenty year period from

eting the twenty year period from \$3 to \$15.

These statistics are especially valuable because they some based in Polity mathematical system of comwere based to Polity mathematical system of con-fliction. Of a total of 6,36 autopates, remove throughout was found in 100 and politocolary con-traction in Account of the mathematical forms of the contract of the contract forms of the contract of the contract of the contract forms of the contract of the contract of the contract forms of the contract of the conthrombout was found in one and pulmonary co-bolian in day of the period from 19 \$ to 19 9 the total mapper of thrombours decreased about perabout the period from 1701 of from the period from 1701 of it forward from 170 against cursoon between the seven However it had some working that in the terminal the management inclience of emporary was research a year serior tree maximum inclience of thrombonis, whereas in the maximum increment of customeres, whereas in case the incidence of embolum reached its maximan at the fame time as the incidence of thrommum at the same time as the incidence of thromboth to a transfer of thromboth transfer considered together was forth-screen and transfer of thromboth transfer of thromboth transfer of the tr and embodem consisted installer was introceed and sectorists years. The veries of all sectorists years the veries of all which throughout occurred was different end offsit intolle which which which which we have an end of a land of the constant of the co Ages, and the sakeste are est speep composing of Your, not, the system age as whose consensus or control stry and action by part Surption and trapposeths per cost of the thrombons commel in the control of the thrombons commel in the control of the co

two-tenths per cent of the thrombosse commend in the famoust votice. If the perior want to included with the latter this venous report was arrobred to the famous of the commendation of the with the after the process report was involved to about 80 per cent of the cases 80th exter of the body were involved with error from the other who thereast and embals regard frequency. All of the thoronto and embals recommend in the sales of cony was involved with extent inducated. All of the foreign and senses consumers in the sense of the freater orenation. An easy I case did an emboun corporate in the pointering security and passed from the left amicle through patient foreness overlands from the ent survive curvage plants average over into the right samels. The right pelmonary artery age involved by, embod more often than the left he cases of smaller embols the lower lober of the in cases or amazer empore the screen some or the ungs are near tropestury inverted that the upper label. Inflationation was found to be the cuber of score innermation was sound to be the cases of the percentage was socreted to be per cent of the cases. the percentage was tocreased to to per cent of the heart and vessels, and to so per cent comme or the next and rements and to so per com-by information degeneration of immore Circulatory distributions subsett infection Cassed thrombons in only 7 per cent of the cases

(Max Bones) Pento Searce, M.D. Robertson, H. E. Foliocesty Embelism Following Surgical Operation, Am J Jung 9M at 3 Robertson says that the memors of thrombous and emportune was a rime one memoria or encomment arm

vention should be rention should be rery lips one II, as has been asserted some hidden infection is the cause, there is hitle loops of success. This would be true along it he the never in section 1 to be tope to proceed costs. processes were stood as any attempt to low or the case. ministry or the cacco as any account to some traceous missistery of the blood world be high to prove a dangerous as the condition to be combetted. Here carpaines as the condition to be cannot use control of a second likely last in the remost chance. eret, it, as seems many laws in the remos camers is the underlying came, there is every remos as as the processing tensor there is every reason as attempt prophy actic procedure to increase the activity of the blood flowing in the regions of stageactivity of the more nowing in the regions or seagu-tion since it is quite clear that the more arpsit the blood flow the dess would be the landscopy install the accesses of interesting thought

theory now one are young as one tensioner towards the growth of intervited through the property of the strice the without does not advantate to the strice to the best flow in the best flow in any particular measures to increase the blood for is any past terms measures to merchan the mean new the relate of the privat ad once links, he must that meaning a frequent intervals prayer and a second of the private and the second of the private and the second of the motion of the less frequent moving and terms the market of the heavy market of the loody and measuragement of the loody and measuragement of the increased in this pool, and secondariness is an increase a spranger rate, sace as every presenting, are spreading. From more important is the local and as the fact, Kenning the ket and kep warm and paying hert Acties to not an up warn an paying the heat locally to the petrit might pure declare the far. The administration of various atministration of various atministration of various atministration. they are summers and the particular to the same of the such as layred extract, magic to indicated at or factor of any fact on two at their factor on the factor of the fa requirering an or torse methods enterpy memory and modesn may be used. Of chief importance are enter nution of the possibility or probability of the development of this lesion and efforts to had a practical

tracet, J. Acuts Fostoperative Dilatation of the Storactic Complicated by Perforation (Data-tion close post-optimized by Perforation (Data-tion close post-optimized by Perforation (Data-tion close translated) the true bost observations on a factorise combustions from the bost observations and best observations are a factorise comparison.

The other reports an enusual case in which folharder temoral of the aterns and athers for laterawang temerat or the sterm and anaem to manan-matlory disease, the patient, forty one year-old woman, developed from with marked distribute of the storage and slight force. The patient refused feather laying on the righth and minth days the eitherance of proof in the stoop are toponed by exists parametering and proposed better 1 taking a statement of the parameter of the parame reper communicate and bosonial pain. I present processed in the beauty per and death occurred on the arrivents day

ten operation.

A topogrammed in the anterior wall of the greatly distant stomach, a hole the size of which may affected to the ancie to the area or otrase perwhen was american to the anost source of the and another the a blood dot. There was no perand one throughout of veneta as found The o-trase piece tourus, and no unumouses as remore as recommended of the hole gave the impression of differe gasFew postoperative perforations of the stomach have been reported. The author was able to find only two cases of associated postoperative dilatation only two cases of associated postuperative distances and perforation. He believes that, in the case he reand perioration are beneves that, in the case he repoils, vasounatation and acute unceration occurred as a result of prolonged dilatation, and that simple gastric lavage might have prevented the development of the fatal complication

# ANTISEPTIC SURGERY, TREATMENT OF WOUNDS AND INFECTIONS

Kozdoba, A Experimental Results With Regard to the Treatment of Infected Wounds (Experimen telle Ergebnisse ueber die Behandlung infizierter

Wunden) Non chir Arch, 1934, 30 181

Kozdoba reports the findings of 169 experiments carried out on dogs, rabbits, and guinea pigs in which a study was made of the healing of wounds produced artificially, infected with various sporeforming and non spore forming bacteria by means of street dirt and osteomyelitic pus, and treated with vucan, rivanol, bichloride of mercury, tincture of vuon, iivanoi, piemoriae oi mercury, uncuire oi nodine, brilliant green, pyoctanin, hypertonic sodium chloride solution, magnesium sulphate solutions, and

The effect of the antiseptic agents was twofold, consisting of a direct action on the pathogenic bacautogenous vaccines teria and stimulation of the defense reaction of the body as a whole Some of the antiseptic agents used brilliant green, pyoctanin, rivanol, and bichloride of mercury—not only produced an effect at the site of their application but also penetrated into the deeper tissues, inhibiting the spread of the infection

In wounds infected with double the lethal dose of certain organisms the most effective antiseptics were and promoting healing rvanol, pyoctanin, brilliant green, tincture of iodine, hypertonic sodium chloride and sodium acetate solutions, and bichloride of mercury In relation to chronic suppurating wounds the corresponding order was hypertonic sodium chloride solution, brilliant green, pyoctanin, tincture of lodine, and rivanol The best results were obtained with combined superficial and deep antisepsis and proper mechanical

cleansing of the sloughs

Of the 169 animals, 63 (36 per cent) died The author states that the prolonged use of anti septics hinders the formation of granulation tissue After a number of days weak concentrations of the antiseptic should be substituted for the initial con centration and these should be followed by the use of hypertonic solutions, especially of sodium acetate Weak solutions of brilliant green and rivanol do not weak solutions of orimation of granulation tissue Strong solutions of antiseptics cause necrosis of various tissues, particularly subcutaneous tissue and

In conclusion the author recommends caution in the application of his experimental findings to man nerve fibers

The Treatment of Pyogenic Infection er, L ine ireatment of ryogenic infection and Its Sequelæ (Die Behandlung der p) ogenen Infection and three Folgen) 58 Tag d deutsch Lexer, E

By "pyogenic infection" is usually understood not merely wound contamination with pyogenic organisms, but also the consequences developing during the course of the local distributions of the local distr organisms, but also the consequences developing during the course of the local disturbances after

If one regards as a general disturbance the influence of the local disturbance on the organism as invasion of the tissues a whole, comprising attack and defense, the destruca whole, comprising actack and defense, the destruc-tion and restoration of tissue, which can lead to general infection through absorption of the bacteria and their toms and the constituents of broken down tissue with resulting infectious resorption fever, one finds even in this conception a basis for all that which, for convenience, we still often term simply "sepsis"

There is as yet no uniformity in the treatment of local pyogenic infection. The guiding principle of the basic rules has become largely lost, partly because of overvaluation of the methods of treatment proposed and partly because of underestimation of

Infection of a wound or mucous membrane surthe processes and their results face takes place by rapid absorption of toxins and pathogenic micro organisms into the lymph or the blood stream Thereby the defensive powers of the organism are aroused and some of the micro-organusms are removed. If many micro organisms from a human disease focus enter a body that is lacking in defensive powers, a general bacterial infection may The latter may occur even before the development of a local disease picture However, as a rule invasion follows the infection after a more or less long period of adaptation and maturation. In this fact may be found the reason for the success of operative care of the wound in cases of wound infection—complete excision of the wound according to the principles of Friedrich in cases of superficial wounds and the removal of all injured and dead tissue according to the rules of von Bergmann's

The local clinical picture is that of a fight consisting of attack and defense The fiercer the battle, school in cases of deep wounds the greater the destruction and suppurative dissolution of the fighting tissue The tissue gains the victory when it succeeds in walling off, destroying, and expelling the attackers and their toxins and the poisonous mass of dead tissue On the other hand, in the case of the toxins of putrid and gas cedema in the case of the toxins of putric and gas cedema infections, in which the poisoned tissue is hardly capable of putting up a defense, toxic general infec

The correct aim of treatment is support of the tissue in its fight against the excitants of the infection follows very rapidly tion There are four ways of supplying this support, which, used at the right time, supplement one

Raising the general resistance This may be definitely effective when local treatment is imposanother

sible or insufficient, as in crysipeles or severe sup-puration of the mucous membrane. Under such direumstances the best results are obtained with convalescent serum and blood transfesson and somewhat less satisfactory results with specific therapeutic sers, vaccines, and proteins, remedies which, cautiously used, may be effective also in general infection Resorption fever when it per sists or recurs in spite of early correct local trest ment, affords an indication of the severity of the infection and of the need of the organism for support However in cases of acutely progressing inflamma-tion postponement of local sid leads to most serious

consequences s. Strengthening of the local defense processes by increasing the inflammatory process is an idea by which Bier has created for himself an enduring monument. It cannot be doubted that the action of passive hypernemia consists to a powerful increase in the activity of all the cells of the reticulo-carlothellal system which are espable of phagocytoda Nevertheless, in all of the more severe infectious processes that procedure is a two-origin sword for an increase in the inflammation causes an ancrease in tissue pressure and therewith spreading of the infections meson of exadete through increased breaking down by the action of the leococytic ferments which dissolve protein. The hope that the ene of small incluons would prove sufficient in all cases to prevent pecrous of bones and tendons and destructhen of joints has not been fulfilled. In acute au purations the method of procedure has wholly falled Moreover, t is associated with the danger of spread of the exciting mucro-organisms by the blood stream in consequence of increased absorption after removal of the constricting bandage

Hollmester and von Seemen have shown in ani mal experiments that treatment by passive hyper grant results in an increase in the aumber of dyostoring cells of the reticulo-endothelial system in the synovial membrane of the joints. Similar experiments on young long bones showed a great increase in the number of these cells particularly on the metaphyseal aids of the spiphyseal line. That the dilution of the toxin by ordens with subsequent resorption may have a considerable effect is known from the clinical course of congested joints infected

by the gamoroccus In its local effect, treatment by passive byper arms bears relation to treatment with positions and most dressings. However the repenue of the abscorn, which is their object, takes place at the cost of the tissue and is therefore objectionable. In maxims it is followed by the casting off of secretic portions of the mammary gland. If sacaps for the masses of pox is not provided by early incision and the pos is forced by tessue pressure down into the deeper parts, the panaritrum, which was at first only subcutaneous, is followed by passaritis of the tendone, rounts, and bones Schraudt and Loche were able to demonstrate these lymph passages by the injection of India rak and to show in compens-

grams the corresponding points of attack by the infection in the bone and joints

However when properly used, these procedures also offer advantages Roentgen irradiation, short wave stimulation of the circulation, and hot bethe have a similar action. They too, can came a begioning inflammatory infiltration to retrogress or easten the sloughing of necroses and the formation of grazulation theree after correct operative treat ment. However, when the infiltration is already to an advanced stage, these measures should never be used without an incison made at the right time and large enough to afford sufficient escape for the put After inciscos, care must be taken that drainers a free. This is important especially to eliminate the danger of resting infection, particularly in bose and foint perpourations

According to Bler the burning of pursiently isflamed tissur produces local and general incress in the defensive powers in addition to local detroction of the infected tissue. The procedure, which often appears dutable, may indeed set immaning processes unto action, but according to the finding of Erb, it is doubtful whether the latter reach the point of lacressing resistance to the lafection

s Operative opening of the form of beferton This does not have for its aim the destruction of the becteria responsible for the infection, which is the objective of deep antisepsis. The chemical sub-atances which relable to LEI pathogenic bacteris in the test tube and do not injure healthy there act in diseased there only in solutions so strong as to case those accross Secress is best obtained by Injecting the patient's own blood around carboncies and it runcles by Larwes method. However, these below have less tendency to progress acutaly in the turors than severe phlegmous

In operative treatment, incision performed two rectly and at the proper time is still the preferred procedure. To be correct, the facialon must be made without causing trasce topury which will result in distinctance of fraction it must be as large as necessary, and as small as possible and it must create the best anatomical route for draining. The proper time for mension is before the tissue has sediered damage. Therefore the rule should be to open up the acutely programmy infiltration before it is de monetrably softened. On the basis of similar considerstons early operation is demanded for suppor ations in the abdominal cavity

Is making the harmon, the surgeon is justified in disregarding I ture function only when the fulanmatory form has become the source of a general infection. Under such circumstances he should not besitata to perform even an amputation if that operation should be necessary \ enous ligation can belo only if the vein ligated constitutes the main route of spread of the injection from the peripheral reposiand the arte of the ligation is in a portion of the was bich is still healthy. Simultaneous early exposure of the penvenous intersuces may check the further

progress of the infecting bacteria.

If the tissue is not strong enough to destroy and expel the infectious residuum after the focus has been opened up, the operative opening must be followed by further support of the healing processes by all measures which increase the flow of wound secretions, further the separation of necroses, and stimulate the formation of good granulations. Frequent changes of irritative moist or ointment dressings and sugar treatment in combination with warm baths or passive hyperæmia are the most advantageous methods when associated with gentle treatment of the tissues in the changing of the dressings and rest of the part

These simple basic rules of operative treatment

permit wide variation in the details

The main grounds on which, even today, efforts are being made to change these basic rules are to be found in the belief of many that the tissue can be so strengthened that it will be able to deal with the infection almost alone, in the efforts of many to limit incisions to the smallest possible in all cases, in incorrect treatment of the incision wounds, and, finally, in the difficulty in recognizing clearly whether aggravations are due to virulence of the infection or the method of treatment. The fear that operation may spread the bacteria in the tissues when, with the frequently preferred treatment with compresses, a defensive wall has not been formed, is a common and often serious error. This is true also as regards the treatment of carbuncles of the face and neck. If these lesions do not progress, the simple application of ointment on muslin, which keeps a way open for drainage from the pus cavities, is better than the use of poultices which, by the softening they produce, favor advance of the infiltration The latter treatment is responsible for death from delay of operation and for extensive carbuncles requiring very extensive interventions

Increased resorption of infecting bacteria following the incision occurs only when the wound is improperly treated. Antiseptic wound treatment with chemicals is no less dangerous than the wiping out and painting with fincture of iodine of tissue that is infiltrated with pus. The actual cautery produces the same result by creating an eschar which obstructs the escape of the secretion from the inflamed region. Mechanical cleansing of the wound surfaces with every change of dressings very often leads to fever because of resorption of the infecting bacteria. This subsides immediately when the wound treatment consists only in covering the wound with oint-

ment on muslin

The wound of the incision never of itself lets the infecting bacteria penetrate deeper as the tissue is under positive pressure and the fluid in it passes outward from the fresh wound surfaces. Only if the tissue is treated roughly, does the infection spread in the tissues. Then, if the infection is severe, it may spread even from suppurating granulations. Frequent fever with spreading inflammation instead of a fall of the temperature is the result. In even extensive purulent osteomyelitis with high fever and

large numbers of staphylococci in the blood, careful opening of the bone marrow cavity is followed by a fall in the temperature and disappearance of the bacteria from the blood. It is necessary only to keep the wound open, drain the pus from the deep parts with tubes, and drain the oozing tissue fluid by capillary drainage.

The use of the diathermy knife and the removal of tissue infiltrated with pus by means of the electric loop offer great advantages. The danger of post-operative resorption is entirely eliminated by these means, the passage of fluid from the tissues into the wound is not obstructed by the cooked layer because there is no eschar, and hemorrhage and pain are slight (von Seemen). The wound is dried out by tamponade only when the mistake is made of using a tampon for more than two days at the most instead of replacing it by moist dressings or ointment on muslin.

The most frequent error in the operative treatment of wounds is a poorly made incision—either an incision which is too long and causes functional disturbances or an incision which is not long enough Other mistakes are mechanical cleansing of the wound by sponging, insufficiently gentle treatment of the tissues (curetting and scraping, painting with tincture of iodine), chemical and thermal injury (derivatives of quinine, ice bag), firm, instead of loose, tamponade inducing retention of the secretion instead of capillary drainage, and the indiscriminate use, in every operation on an inflammatory focus, of Esmarch's bloodless field which favors the detachment of lymph thrombi and venous thrombi

Infiltration anæsthesia induced in the inflammatory tissue or its close vicinity should be avoided as it forces the infectious exudates of the tissue into the nearby lymph passages Moreover, there is no

necessity for this kind of anæsthesia

4 The fourth means of treatment consists in placing the diseased portion of the body at rest, in the case of the extremities with elevation if possible Every tissue which is putting up a fight must be aided by rest and measures to establish good circulatory conditions. A correctly applied bandage is often of itself enough, as is evident from the frequent rapid retrogression of acute lymphangeitis and lymphadenitis and of erysipelas following the application of immobilizing bandages.

The first immobilizing bandage should be so applied that when the wound dressing is changed only a part of it need be removed and all unnecessary movement may be avoided. The changing of dressings necessitated by a rise in the temperature or saturation of the dressing must be carried out with extreme care. As a rule it should be done without the use of general anæsthesia in order that the complaint of pain may give warning of tissue irritation.

The immobilizing bandage should not be used

too long

The acute stage is often followed by tedious illness of varying character Fistulous suppurations, coated wound granulations, and resistant and extensive

ordemas are evidences of the difficulty experienced tructures are evaluated on the numerous experiences by the gradually enhanted there in cleaning a way especially large foci of necrosis. The object of treat ment must be the complete exhaliton and sloughing of the account of crass not their encapsulation which carries with it the danger of latent infection. This a crident most clearly is supportative ostcomyentis, in which foci left behind may be roused by trauma years later to the most severe inflammations and may over give rise to endocarditis and myocarditis 1 is therefore better to remove pectoric foci after enis increase better to common account to the fixtule than to obtain bearing of the existing the encapsulation of necroise foci by the injection of chemical substances or by placing mag gots within them. Softening and separation of the and a state of the heat treatment, but knotin dreadings, short wave neat Gratiment, out against the same hypersmile freatment, or the induction of passive hypersmile freatment, or the induction of passive hypersmile free same than the sam Residual cedemas are favorably influenced by sand casimist truemas are tavorataly immension by seasons boths, under water manage, and vascular gym nucles

In the course of the lest thirt) years the tendency has been, on the one hand, t limit the extent of interventions more and more and, on the other hand, to search for means of increasing the general and local resistance of the therees in the organism However, the unfavorable as well as the favorable stonerer the animagene as was as the service of those tendences, most be considered Chief among the former is the fact that, more fre dentily than previously the the general practithoner who handles there cases in the all important cardy being of the queries and it is he also decides are the an important resets and transfer and in the second cards and the second cards and the second cards are the second cards and the second cards and the second cards are the second ca on the intervention accessing and often carries it out. The operation is thus often inadedests or per formed late More and more are these cases coming into the heards of the surgeon m neglected state The chief requirement, which must be met despite Age cases requirements, which subsects much improve all new views, is an early and sufficiently extensive operation to progressive cases. The necessity for surgical treatment can be correctly Judged only by an expense auron and only an experienced arreprised bands perform the operation. The chief manner of the fight games a program infection. cannot be left to the times and the organism without resulting accers injury. This is exident perfor out resuming severs injury i am is evident partie ularly in suppurations of the tenders sheaths, bones, and joints

Whoever thinks that he can recommend some thing new and better, must my in what manner and seconding to what base roles be has previously carned out the local and general treatment of progreec infection. Ca tion in criterion is at ays t be recommended

(LETTE) FLORENCE ANYLAN CARPENTER

## AR ESTRESIA

Waters, R. M. and Schmidt, E. R. Cyclopropane Attention J Am II Art 934, 3 971 The authors report the findings of yes

study of cyclopropune at the Huconum General Hospital, raci ding over ,000 chincal administra

tions. Cyclopropane is a gaseous homer of pro-prience. The technique employed in its admension. pysics: Ane recomments employed in an automatic-tion is that known as the carbon-dioride absorbtion technique. Cycloproprine la capable of produces narrous when it is inhaled in a concentration as low and the property of the plane of annual transmission of the safety of the plane of annual transmission for the safety of the saf the majority of abdominal operation require to yers gr concentration of 11 per rest.

In the cases studied the induction of cyclopropage

anesthesia appeared to be quite as picarast as that amendment appeared to be quite as pressure as the of nitrous oxide amenibeds though less rapid. Recovery seemed to be more frequently accompaned by names than after the use of autoes order no by matters than state on the continue of states and continues and states and continues somiting more often followed minor administration of the gas then its administration for major emper-Cyclopropane has given neutralaction as a prehauman to the induction of ether amenthesia.

At the end of the reported year's study the author and that evelopropane is replacing eth line (the Wisconsin General Hospital to the estimated of anneathetists, surgroups, and patients. They choose a in preference to ether in all over 75 per cost of the reference in creek we med to ment. In case in which ether is still employed there seems to be as increasing tendency to choose cyclopropage is preference to alirous order as a messas of inducing other anesthesis BERRET F TREETON, M.D.

Sounts, E. Therapeutic Dangers and I juried Dangers and I juried from Local Amendment (Thempsenderts: Grährer und Schaeferste und Schaefersteuts der Lokal and Sc Sancacheria) Fortache Ther \$14, 19 405

Local anestheria has a number of advantages over general angesthesis for the practitioner. However k as associated the certain dangers and is capable of es amountered in the test families which are not as ell known the angle version injuries a many by granted against by the physician. These diagrees and injuries are due to three important causes ( ) poloning, (s) these is-

Poleoning may be caused by the anesthetic or the adrenalin or both Is addition to the total quantity injected (maximum dose) the concentration of the sol ton and the method and rapidity of the injection play a part I travenous injection is especially to be avoided I general it is all ays preferable to me

eak solutions and inject them slowly possibly at intervals, and also to add adrenatin. Among the substitutes for the too toxic cocale, troperocus in preferred for spinsi anasthesia and parain for ser face anguibests. Pacais should not be used for isjection by the practitioner and for surface anesjection by the practitioner and for surface and thesis it should be used only its special citation For injection, novocain is best Tutocaus and especially pantocain, possibly the occal parts of norman, re about factory. However even these substitute of cocus are not libout disper Therefore, nasl doses, dil ta solutions, slow face tion, the avoidance of intravenous injection and, is the induction of regional areginesis the observance

of special care in the region of the spinal foramina are necessary. Like the cocain preparations, adrenalin is non-toxic only if it is given in small doses and in a very dilute solution and is not used for intravenous injection. The value of substitute preparations of synthetic adrenalin or from the posterior lobe of the hypophysis has not yet been proved Even the combination of cocain preparations and adrenalin may be toxic.

As a rule tissue injuries need not be feared from the ordinary procedures. However, the solution must be administered at body temperature and must be isotonic and sterile. Moreover, a harmless anæsthetic must be chosen and the adrenalin content must not be too high. Adrenalin is dangerous when the tissues are tense or rigid, also in peripheral parts with end-arteries (fingers, toes, and skin flaps), and in infections. Its use is especially dangerous in circulatory disturbances such as those associated with Raynaud's disease, endarteritis obliterans, arterio sclerosis, and diabetes. In these conditions it is safer not to use local anæsthesia or to use less or no adrenalin. Injury to the blood vessels of the nerves may lead to special disturbances. In the induction of

anæsthesia by the application of cold, care must be taken to avoid injury from the use of too cold agents and too prolonged application of the cold

Infection may be produced by the apparatus used or the solution injected. Sterilization is done best with steam under pressure at a temperature of 120 degrees. If this method cannot be used, the separate parts of the syringe and the needles should be boiled, and sterilization of the solution in small quantities at a time or by means of a bacterial filter should be done unless prepared solutions in sterile ampoules are used. Infection is favored by contamination by bacteria and by tissue injury. Therefore, progressing phlegmons and sepsis are contra-indications to local anæsthesia.

Fortunately, the injuries and dangers mentioned are not frequent and can usually be avoided by careful observance of the indications and the use of a correct technique. Therefore local aniesthesia in its simplest form remains the most harmless aniesthesia for the practitioner.

In conclusion the author gives the indications and describes the technique for the induction of local anæsthesia (SONNTAG) LEO A JUHNKE, M D

## PHYSICOCHEMICAL METHODS IN SURGERY

### ROUNTGEROLOGY

Forritt, A. E. The Diagnostic and Therapeutic Uses of Thorteen Dioxide. Prec. Ray Sec. Med. Load 1934, 27 7193.

After reviewing briefly the discovery by Oka and Radt that thorizon discide will reader the liver and splern visible roentgenographically the author de scribes the technique of its use and field of applicabelity he immediate harmful after-effects have been noted, but as the medium is excreted very slowly the length of time that has elapsed has not been sufficient for the determination of a possible remote harmful action. At the present tome its use is limited largely to cases of obviously imperable peoplesus and those in which an exact diagnosis might lead to active treatment that would make a decided difference in the prognosis.

Two cases abowing the value of the method are reported m detail. In the first one the one of thorism lealmoids adaposterop a rad boratesome obroth mass was not connected with the atomach or liver but was probably of the sature of a retroperitored aerosus. Irradiation therapy resulted in almost complete despressance of the turnor. The author believes that part of the favorable reaction may have been due to the intrinsic radio-active properties of the thorum retained in the adjacent liver. In the accord tase doubtful mass was found to be due to marked entargoment of the left jobe of the liver of probably metastatic origin and deep reesigen they any caused in appreciable decrease as the size of the thornes filled lever

In conclusion the author says that while it is erserally believed that the radio-active presenties of thorum are practically negligible, the possibility of beneficial effects from prolonged contact seem to warcant further classical and experimental research reearding them ADDLINE HANTONG, MLD

Grier, G. W. Radiation Therapy of Cancer of the Bieln. Am J Rossigunal 1934, 32 and

The admissionation of massive does of pradiction is now reperally accepted as the treatment of choice for cancer of the skya. If romatern rays are employed, unfiltered treaduation as preferred

The technique employed by Grier includes the une of too k 5 ma a 10-in mun-target distance, no filtration, and an exposure term of ten primeter Note: fewer than 3 such treatments and frequently a or more are green. The treatments are administered within one week I intervals of one day If the the advent of methods of measuring roentges uraduation Grier found that the ten-minut treatment resulted in a dosser somewhat greater than expected. The measurements vary considerably of course

different tubes. The tre-minute treatments room sent a minimum of your and probably sa memor between 1 900 and 2,000 r Four such treatments. which Orier considers the minimum adequate to destroy aquamous cell carcinoms, represent between 5,000 800 8,000 The danger of late meaters reactions is less with this method than when Shored braduction is given in small closes over a losger period of time. Precaucerous lesions are treated by practically the same technique except that fre quently information is done before the traduction treatment la given.

The regults is see cases treated by the described porthod in the period between 1010 and 1011 are reported. In 100 cases the irradiation was followed by core, in 16 it as followed by recurrence, and in 15 it falled. During the same period 71 rates of precaucerous lesions were treated with cure in 67 and fallure in 4. Heay of the failures and rene reners were explained by insoficient irradiation or treatment by fractional or altered irraduction chewhere. Others a era due to extenden of the cancer to cartilisme, sensons surfaces, or bone or to parte assis. EAST E BARTE MD

Killert, A. R., and Jenkinson, E. L.: Exception of the Stometh and Small Intertine Following Rocution Therapy; Report of a F tal Co-

The possibility of demaging the gustro-intestrial tract by deep recatgen bradution has been demonattated experimentally and by a pumber of thurst observations. The authors report a case of flody Ma discuse in which deep rocuters bredistion was followed by multiple alcerations of the storach and intestines which terminated latelly by perferation Generalized adenopathy, including marked enlarge-ment of the measureme lymph nodes, as present During the period of aine months from March & to 1919, the patient received total of December s So e units of rountgen breshation given in aber treatments. The treatments usually consisted of a raduction of one anterior and one posterior stee of the abdones. At no treatment, ore more than 1701 given to any one area. On to occusions a total of as given through two portals. The last recet gen trestment was given December 1 1929, her

ago cusata ere edministered After that tomineer the pattent felt week and complained of loss of appr tite and generalized aching which as especially acress across the abdomen. He entered the hospital February 3 1030 Abdominal symptoms ad same of various types and varying seventy existing let-to diagnosis of general peritorities and as explora-tory type rotomy was performed. The patient field

on February o

The visceral changes found on gross and micro scopic examination at autopsy consisted, in brief, of a single huge perforated ulcer and multiple smaller ulcers of the stomach, eight circumscribed annular ulcers of the ileum, and necrosis and hyaline scartissue changes in the perirenal and mesenteric lymph nodes. Gross and microscopic examinations of the parabronchial, biliary, mesenteric, and perirenal lymph nodes disclosed tissue structures that resembled lymphogranulomatosis only very slightly. The spleen presented no indubitable changes of that disease

The autopsy findings seemed to offer little evidence that the ulcerative processes were of the nature of an active lymphogranulomatosis. The changes discovered were comparable to those described by others as gastro intestinal damage due to roentgen irradiation. Adolph Hartung, M.D.

## RADIUM

## Scott, R K Radionecrosis A Clinical Study Med J Australia, 1934, 2 1

Radionecrotic ulceration is an ulceration which appears at any time or persists after irradiation. It is characterized by chromicity and the presence of necrotic tissue which shows little tendency to separate On the basis of the time at which it appears, three types are recognized—the immediate, the subacute, and the delayed

In the immediate type of radionecrotic ulceration a slough appears immediately after the treatment. In the subacute type, healing becomes arrested after from six to eight weeks of an apparently normal reaction. The delayed type occurs in irradiation scars and has been known to develop as late as ten years after X-ray therapy. It seems to be due to intensive or repeated treatments with inadequately screened X rays. The etiological factor is an insidious, progressive pathological change in the connective tissue.

The most striking clinical feature of radionecrosis is the chronicity of the ulcer. An unexpected histological feature is a general deficiency of polymorphonuclear leucocytes in the periphery of the necrotic field The thickening of the tissues surrounding the ulcer may cause the chinician to suspect residual malignancy Indeed, malignancy has frequently been demonstrated in such an area The peripheral infiltration must be regarded as a tissue response to irradiation The edges of the ulcer are irregular The base is composed of necrotic tissue in which the central slough shows stranding Granulations appear late The epithelial edge may grow slowly between the fibrinous surface, but more often the fibrin acts as a barrier Tendons frequently show a tendency to ulcerate and when they become involved by ulceration their loss is inevitable. After sequestration of necrotic fibrous tissue, cartilage, or bone has taken place, healing follows slowly Pain occurs in the early stages and occasionally is very severe Involvement of the mandible is especially hable to

cause severe neuralgic pain. In the late stages the pain is less severe. With the onset of healing and separation of sloughs it gradually ceases. Infection is an essential factor in the development of necrosis. Hamorrhage is not infrequent in the immediate type of necrosis, but is rare in the subacute type. Often observed is a superficial type of ulceration which may be quite extensive and shows a remarkable tendency to separate. Healing is slow. The author has seen the subacute type of necrosis in the lips of syphilitic patients and in breasts. Late necrosis occasionally develops in the neck in an area of scarring and telangiectasis following radium pack treatment.

Beta rays seem to have a destructive action on the tissues which favors necrosis Radon seeds containing 15 mc and filtered by 03 mm of platinum frequently give rise to necrosis when they are buried extensively in malignant tissues. Therefore, especially near bone and cartilage, the use of radon seeds has been abandoned. The chief factors responsible for the necrosis seem to be a foreign-body action and prolonged irradiation with a high total dosage of beta and gamma rays According to the author's experience, the screenage is insufficient and necrosis is favored by beta ray fibrosis. Scott cites cases of late radionecrosis from beta-ray irradiation. He states that the dosage of gamma rays is also very important The general practice of using 10 mgm of radium per cubic centimeter of tissue for one hundred and sixty-eight hours is erroneous Such overdosage is apt to produce the subacute type of radionecrosis The late types more frequently follow beta irradiation, treatment with inadequately filtered X-rays, or repeated X-ray treatments Especially in the tongue, the immediate type of radionecrotic ulcer is probably a manifestation of gamma-ray overdosage In the past year the reduction of the dosage of gamma rays has apparently improved the results. The importance of cross-fire from several long needles in parallel planes in the causation of radionecrosis is difficult to estimate At the present time it is thought that chnically five day doses are less satisfactory than seven-day doses, and that an initial intensity of 20 mc per cubic centimeter is too high Consequently, the dosage has been reduced to 143 mc -hrs per cubic centimeter in seven days and the initial dosage to 15 mc Further study is necessary to redetermine the clinical limit of connective-tissue tolerance. The goal is the maximum amount of irradiation necessary to destroy the tumor without risk of damage to the host stroma

The rôle of infection as a primary factor in radionecrosis is well known. Late radionecrosis usually begins as a superficial necrosis which persists. Infection with the bacillus procyaneus causes a marked delay in healing. Diffuse fibrosis, which is a common manifestation of tertiary syphilis and the arteritis combined therewith, causes a decrease in the blood supply of a part with resulting local tissue death, namely, immediate radionecrosis. In the syphilitic tongue, healing is favored by stremous anti-spatialtic treatment, but the fibrosis rawly disappears Malignancy in a spylalitic tongue is nathoesentitive to trong to recent locally. The recurrence may be of the slow growth and associated with irregular neovice. The most successful treatment is dathermy the discretall diagnosis between a malignant isolos and a guarman is officially Absenced response grating of malignancy. Malignancy is rawly associated with tuberculous olders, but the treatment of a tohermous or guarmantic schools with residential to the control of a clinical or pathological error is frequently followed by sacross:

With regard to the relationship between the type of milliprancy and refinences facets are that the best results from irradiation are obtained in the hypertrophic type of malagrancy. The alcarating type of tumor a th considerable destruction of the subject times and completing septis, which is invalidally present, is a more favorable field for meetred in sech lesion adequate seedle treat meet necessitates deeply buried firradiation to reach the advancing edge of the tumor. Therefore, not infrequently, an uter remains: When bedding to design the properties of the pr

The indirecting type of entitymency each as activous currents of other best, exteroing tuber or indirecting opinions of the tenger is particularly fishle to undergo perceives. In case of such leatons the inference is maintail and the patient does not seek advice uself late, when the tentor is often quite extensive. The fibroist observation of the opinion opinion of the opinion opin

ment with borred section is recognity and to trained as Radiosacrofic clients with carriang in the base are related to the bose and car bet rily when the carriage of the pose and car bet rily when the carriage is the prefetched orders has been infiltrated Needles are bursed used to the trained the sections of the carriage inter becomes exposed or infected, if can be seasly removed and its removal and his holdword by brighing Whom sections is favorable to the section of the section

condition clears up, but in the early stape the yield severen. The therapiet is more worseled by the one developing a subscrits necrosic which exposes per those of bones and may present for souths as year. This condition is probably the result of local parms my fermidation. On the document of the less if the same performing person of the less in the condition is probably the result of local parms my fermidation. On the document of the less if the same that the blood supplies are performed by the becomes the blood supplies of tendens. A charge large supplies the probably and to be followed by the exposure and slongisting of tendens. A charge large supplies the probably industrial temperature complicated to the tendens of tendens are presented as an expectation are married secretary and in many charges.

The treatment of malignant mearmore following surpical excision of the sprinary growth regime spread are followed by the prinary growth regime special care on a countr of the former dunipusery of the recurrence, the limitation of the blood and lymphatic connections, and the consequent finerand and or radionecrosis. In case of berein neoplasms in which the removal of indetend teeth in necessary radionecrosis not infrargently follows around does of irradiation. Cardens removal of tech with seven laceration of the game or breaking of the troch roots in one of the game or breaking of the strock protein is one of the canase of necessit of the strock and superplacent masse following pormal irradiation.

of the tissues. Another problem is the treatment of malignancy developing on a proviously irradiated area. In cases of spithelioma develocane on an area of lapus crythematours previously treated by rocuters in radiation has ling is often greatly delayed Recurrent lesions previously treated with radium are new resistant t second or third treatment, execusly if beta cays were employed or inadequately accepted gamma-ray therapy was used initially. The substquent treatments may be followed by incomplets eratheation of the growth, breaking down of the treated area, and a negrotic picer. Frequently it is best not to treat such recurrences. However, a slouple ulcer even if it is chronically infected by best sequestra or perrotic timue, is less dangerous then malignant alor with sepals, hemorrham, and uncontrollable advance of the lesion. As the infection of rathonecrotic ulcers lowers the patient's resistance, broachoporumoula is a not encommon complication.

complex seatment of radionecrotic ulceration present numerous problems. Infection and increase seat be combated. In late cases radical treatment are depotabled by the treatment of choice. Encision small be complete with removal of the fibrotic break are of the ulceration. Duthbermy with a cold infinity be used according to the inducations. If the other acted area is recompletely strated, betting numerate in locations are stated in the contraction of the contraction of the inducation of the contract in locain terposable. In the smoth, encision followed in stratem has given good results: In superficial area in which leading is delayed following irradiation, shin grafting by the method of Wangensteen has been successful and has many advantages over the method of Thiersch Conservative treatment consists in efforts to combat sepsis, to restore the circulation of blood, to assist separation of the slough, and to prevent deformity Pain must be controlled The most useful dressings are a 1 200 or 1 400 so lution of Monsol, a 12,000 solution of flavine, hypertonic saline solution, and pure glycerin Heat and hypertonic solutions are of value. The applica-Borocain tion of a plastine dressing is helpful and percaine ointments relieve the pain slough may be removed with the scissors. The application of equal parts of unguentum hydrargym ammoniati diluti and unguentum zinci oxidi has proved beneficial In immediate and subacute types of buccal ulcers conservative treatment is the only possible treatment Mouth washes of eusol, hydrogen peroxide, or potassium permanganate are helpful The food must be soft The pain in buccal ulcers, which is very distressing, is of two types—a dull continuous pain and a sharp intermittent neuralgic pain Morphine may be necessary Injection of the mandibular division of the nerve with pure alcohol at the foramen ovale may be indicated Sprays of a 1 2,000 solution of percaine in glycerin

Radionecrotic ulcer may cause complete disability Treatment for pain and cleansing measures to permay be helpful mit healing are necessary In late necrosis, complete resection of the damaged tissues should be done The procedure of choice for repair is an immediate plastic operation Conservative treatment means months of disability In three cases reviewed by the author deep radionecrotic ulceration of the subacute type occurred in the neck following the application of a radium pack and severe toxemia and death due

The author urges rejection of the term "radium primarily to the necrosis resulted burn". In conclusion he states that, because of the nature of the cases coming for treatment, the occurrence of radionecrosis cannot always be avoided in A JAMES LARKIN, M D any large radiotherapeutic clinic

## Pathological Manifestations in gnt, K. D. rathological Mannestation. Radionecrosis Med J. Australia, 1934, 2-8 Wright, R D

Radionecrosis is defined as massive continuous death of ussues for which radium or the roentgen rays are directly responsible. By the term "massive death" the author means that the tissues die as a whole He states that there is no "differential death" such for example as death of the death" such, for example, as death of the vascular tissue without death of the fibrous tissue or death of malignant ussue without death of the stroma

The aim of short-wave therapy is to kill neoplastic tissue without causing serious injury to normal tissue The ideal result is a cytocaustic rather than a histocaustic action Under certain circumstances a misucausa according and under no irradiation will produce an ulceration, and under no circumstances is a therapeutic dose without effect on the reparative tissues The dose may cause rapid

degeneration of the normal cells and of the abnormal tissues The desired result is degeneration of the abnormal tissue with subsequent repair, but the abnormal tissue with subsequent repair, the surneoplasm and the stroma, and possibly This type rounding tissues, may die progressively of necrosis is called "acute" or "immediate." In other cases the reaction to the irradiation occurs normally and the appearance of the ulcer formed suggests that normal repair will take place, but ultimately the entire process becomes stationary This type of necrosis is termed "subacute" or "delayed" A more unusual occurrence is the breaking down of a previously healed lesion. This type of necrosis is described as "late" or "remote". The pathological findings in cases of acute necrosis

are typical of tissue degeneration elsewhere, with loss of cell and nuclear structure loss of cell and nuclear structure scribes the histological picture in detail. He states that there is no satisfactory evidence that an increased rate of mitosis in tumors has a fundamental effect in increasing the sensitivity derived by the neoplasm from its parent cell The less differentiated the cell, the longer its mitosis, and the more frequent its mitosis, the greater its radiosensitivity may differ in sensitivity even when the factors of

There is no known way of decreasing the sensitivity of vascular and connective tissue Factors mitosis are constant which increase it are favorable to necrosis Previous irradiation greatly reduces the dose necessary to cause a breakdown When the stroma is scanty the breakdown will be massive Underlying syphilitic lesions with endarteritis, collections of radiosensitive small round cells, granulation tissue, and sometimes gummatous necrosis greatly augment the massiveness of the breakdown process Arteriolar sclerosis increases the tendency of stroma to break down Latent uræmia and diabetes are apparently other factors in the occurrence of breakdown Breakdown is dependent also on the general health of the stroma and of the patient Local conditions are of great importance Tissues subjected to irradiation have a reduced reaction to infection The anatomical arrangement of the part irradiated, such as the proximity of bones, tendons, cartilage, and fascia, is important.

In the presence of asepsis, slow repair may take place, but when sepsis is present, casting off occurs, Following observations made on tissues subjected to excessive dosage, the author made similar observations after the use of therapeutic doses to determine whether the latter caused similar changes. In experiments on dogs, radon needles 2 cm long which contained 20 mc per centimeter of length which contained to me per continuete of tone 8 mm of and were screened with from 0,5 to 0,8 mm of platinum were implanted under the skin of the forelimbs and the skin of the ears and left in place for six days The ears were examined three weeks later and the forelimbs eight weeks later. The cartilage showed destruction of the perichondrium with degeneration of some of the chondrocytes and a beginning granulation-tissue invasion of the cartilage The bones showed subperiorteal rerelaction with granulation-tierne formation. These changes were definite evidences of superficial destruction of the bone and cartilage. Repair was taking place. According to Phemister's findings, a flake-like seques-

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tration a ould have resulted if infection had occurred Muscle tissue close to bone which has been ires diated frequently shows necrois. According to Mottram, this is due to the secondary irradiation from the hone. In the treatment of tumors of the mouth by kraduation, necrosts of muscle near bone and necrosts of irradiated bone occur frequently if infection develops

In subscute necrosts the underlying factor is fallure of repair 5 bacut necrosls is a common consequence of artite necrosis and frequently occurs in cases in which the reaction to irraduction is normal and healing is expected. One of the chief causes of recurrence is syphilis. The author describes the pathological changes in detail with photocribero-graphs. He states that the question of the adequacy of the blood sopply also arises even though ligation of the external carotid artery of the affected side has in some cases been followed by prompt bealing Ultimate bealing occurs only when the new forms tion of hyaline theme course and the community of this theme are removed. This there is replaced by a poorly formed granulation tissue, and healther takes place over this journation.

Late necrosis occurs in scars resulting from hirssive A-ray or radium irradiation. In a non-alterated area of specimens of such necrosis the author found alight thinning of the area with almost complete has of papillation, sweat and schemeous glands, and The fibrous cortum showed an irregular over growth of fibrous and electic times. There was evidence of the formation of fibrous tissue. Telamore tasks was well developed. While other lavestiestors have reported progressive endarteritis shinerens, Wright was mashe t find any evidence of this charge in two cases of late necrosis. The skin tenperature in the scarred rea is less stable then that is normal theme, but so lower. Wright concludes that the total blood flow in the scar produced by radiam well acreeped with o count of platfana and in the thick scar produced by lightly acreeped X-ray is no less than that in normal skin, and that therefore the cause of the alceration is not a decresse in the blood supply. His findings show that the spittleban is thin and devoid of appendages. There appears to be a premature aging of the cell constituents. The ultimate death of the latter appears to be saalogous t the changes observed by Spear in these cultures

A LANCE LARGE, M.D.

# MISCELLANEOUS

# CLINICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

The Absorption of Dextrose and Water by the Small Intestine and the Colon An Experimental Study Arch Surg, 1934, 29 Cutting, R A

Cutting says that in view of the relative facility with which the colon absorbs water and, according to his experimental findings, dextrose as well, the prejudice of many surgeons against proctoclysis is

In the human adult there are at least 2,110 sq cm of mucosal surface in the colon, and if the human difficult to understand colon absorbs at the same rate as the colon of the dog, it is capable of absorbing about 240 C.Cm of water and 30 gm of dextrose per hour from a procto-

Failure in the use of proctoclysis is due to too clysis of 5 per cent dextrose solution rapid administration, which favors expulsion or leakage, or the use of hypertonic solutions, which tend to withdray fluid from the tissues and are inimical

Experimental findings in regard to the absorption to the absorption of water or dextrose Experimental findings in regard to the absorbed of fextrose by the colon have yielded markedly differ from conclusive. The ferent results and are far from conclusive problem is far more difficult than it appears to be at first. The blood-sugar level does not use proportion ately with the intestinal absorption of dextrose In 75 per cent of cases the anæsthetic agent and surgical nanpulation cause a rise in the general blood sugar level Conclusions based on variations of the respiratory quotient as an index of intestinal absorption of tory quotient as an index of intestinal absorption of dextrose are valueless. The introduction of measured amounts of solution into the intact intestinal canal through the rectum and their recovery by the

The author's experiments, in which trauma was same route can never be accurate reduced to the minimum, the periods of observation were long, and accurately measured areas of intestinal mucosa were compared, demonstrated that the colon absorbs dextrose as actively as the ileum and absorbs water in far larger amounts than the ileum

# Phemister, D B, and Livingstone, H Primary

Psychic effects on the medullary centers caused by pain or fear from injury or operation may result in a fall in the blood pressure, bradycardia, pallor, and faintness which constitute elements in the syndrome of shock Abdominal operations, especially those on the stomach and biliary tract, may cause a fall in the blood pressure to shock levels and brady cardia, probably as the result of stimulation of the autonomic fibers of the vagus nerve

As a rule, these primary psychogenic and neurogenic depressor reactions are transient and of minor importance, but occasionally they may be severe They may be designated as primary shock. If other factors lowering the blood pressure, such as hemorrhage, are superimposed, a marked state of second-

Injury and stimulation of somatic nerve trunks in accidental wounds and operations usually do not ary shock may develop cause a fall in the blood pressure or any other shock phenomena if hæmostasis and anæsthesia are adequate However, there are cases in which a fall in the blood pressure occurs early without a known cause and under such circumstances it is difficult to

The fall in the blood pressure occurring immediately after the release of a tourniquet is due largely rule out a nervous factor to the entrance of blood into the extremity which then becomes the site of a reactive hyperæmia However, it is impossible to rule out completely the operation of nerve impulses or toxic substances

Primary and secondary shock should be recognized on the basis of a difference in causation rather than a

difference in the time of their occurrence.

Brooks, B, and Blalock, A Shock, with Particular Reference to That Due to Hæmorrhage and Trauma to Muscles Ann Surg, 1934, 100 728

The authors consider two of the various methods by which experimental shock may be produced These are about as free from complicating factors as any that can be used The first is traumatization of the soft tissues of an extremity, and the second the removal of blood from a large vessel to reduce

Employing the method of traumatization of an the quantity of circulating blood extremity under general anæsthesia, experimenters

have shown that the production of the shock was associated with the loss of approximately one-half of the total blood volume into the injured part This loss is sufficient to cause low blood pressure and There occurred also an increase in the concentration of the red blood cells, a negative response to the transfusion of blood, and capillary congestion and hemorrhage in many of the organs of the body Since the results of experiments indicated so

clearly that the cause of death was the loss of plasma and red blood cells into the injured extremity, the authors believed it reasonable to conclude that similar alterations might be produced by the removal of blood from the body—by hæmorrhage They therefore carried out experiments in which the blood pressure was gradually reduced by the slow withdrawal of blood from the femoral artery under local anæsthesia and the blood pressure was kept at a low level for as long as posable prior to death. The records in these experiments were quite similar to those obtained when an extremity was traumatized.

In an attempt to classify acute directatory failure from a physiological viewpoint the uthors dis-

tanguish the following four types

The hemstogenic, i.e. shock characterized by a decrease in the blood volume, vasoconstriction, a decrease in the output of the heart, and subsequently decline in the blood pressure. The simplest example is shock from acomplicated hemor ringe. Of the same type is shock following traums to large masses of moscle

a The neurogenic, i.e. shock in which there is a vasodilatation dependent on a decrease of constrictor tone brought about by infraences acting through the narrous system. Colleges, or primary shock is of this type.

3 The vasogenic, is the condition in which the

vascular dilatation is brought about by agencies acting directly o the blood vessels Histamin probably exerts the major portion of its effect in this manner

The cardiogenic, i the condition in which cute circulatory failure occurs as result of a pri-mary disturbance of the heart. This is characterized by wenous distention, in contradistinction to the collapsed condition of the veins found in peripheral circulatory failure. This type of elteration is produced by a rapid commulation of field in the pericardial cavity SAWURI KARL M D

Hener, G. J. and Andres, W. DeW : The Effect of Adresal Cortical Extract in Controlling Speck Following the Injection of Aqueous Extracts of Closed Intestinal Loops. A Serr ast an

734

In experiments carried out on does the authors found that the intravenous injection of aqueous extracts of high intestinal loops with fatal obstruction produced a marked primary full in the blood pressure followed by secondary rise of varying device which in turn was followed by a more gradual fall to a definit sheek level

The primary fall in the blood pressure seemed to be die to marked vasochlatation, while the escond fall was associated with the loss of planus-like fluid

from the circulating blood

Rigoritaneous spection of adrenal cortical correct into the contralateral femoral ven had markedly beneficial effect in lemening both the degree of the drop in the blood pressure and the amount of plasma loss, and in prolonging the life of the ammal after the injection of an aqueous extract of obstructed loop Tals protective action was destroyed by boiling the cortical extract for one minute

When, an hour or so after the injection of squeezes extract of obstructed loops, an ammal was in a state of projected shock with a low blood pressure and decreased plasma volume, the intravenous injection of normal salese solution, gum-scarca Ringer's solu-

tion, a o per cont gircose solution, or blood falled to restore the blood pressure materially or to present further and serious lowering of the plants volume followed by death.

Extract of adrenal cortex alone was definitely less effective in reviving an animal in this condition, but the administration of this extract amplitudently with transfusion had a markedly beneficial effect. eventually raising the blood pressure to searly the normal level and maintaining it, restoring the plasma volume, nd preventing subsequent loss of the field elements of the blood, thereby prolonging his.

SANCEL KAPL M D

Afters, E. V. Lymphesderns of the Extremities Classification, Etiology and Differential Disprocis. A Study of 160 Cases. Arch Int. Med. 1914. \$3 606.

It is present that relatively little is known bout lymphordems. In a study such as that reported in this article much depends on the accuracy and de tails of the clinical history and examination of the patients. Invariably when the study of ratients with a specific condition has been carried out by diagnosticians with diverse interests, too much suphasis has been placed on the diagnosis and toe little on the details of the history and the mandestations of the illness. In the author, study this diffeculty was offset somewhat by the fact that in recent years the study of lymphordens at the Mayo Chair has been centralized. It is only by concentrated inquiry that mirrotic of development can be traced consecutively, and it is only when this is done that facts about the weakstoon of lymphordena can be

arranged in an orderly pattern. The emerimental data on lymphordens are confusing somewhat contradictory and at best isadequate and almost inconsequential ith respect to their worth in the interpretation of thinks phenomena. No condition simulating chroule lymphordems in man has been produced in animals, and the experimental procedures so far executed appear insufficient when compared with those used in the production of venous cedema. Mechanical methods for interrupting the flow of lymph t the root of the leg should be, priori as devoid of results as those for mechanically interrupting the flow of vesors blood As multiple ligations of veins in the same area do not produce venous cedema, it is not surprising that resection of the privic and inguisal lymph vessels does not produce lymphodens. Ex periments producing lymphatic thromboals similar to those producing venous thrombons with venous cadema are necessary. Relatively httle is known bout the collisteral circulation of lymph t the junction of the extremity and the body Although all lymph vessels join t the grain and axilla and pass

along the large blood vessels, it is important to know bout the connection of lymph vessels below these regions with the lymph vessels of the abdomisal and thoracic wails and the back. As collateral circula tion of the renous blood may be carried on by collateral channels from the root of the limb to the trunk, it is probable that the conditions as regards the lymph vessels are analogous, especially as there is an analogy between the veins and lymph vessels

Every ounce important regard Even the clinical diagnosis of lymphoedema is in every other important regard sometimes uncertain, a fact best evidenced by the sometimes uncertain, a fact post evidenced by the equivocal parts played by lymphatic and venous obstruction in phlegmasia alba dolens obstruction in phicegniasia and doichs tests for certainty is due to the lack of conclusive tests for lymphatic obstruction Solution of the problem of distinguishing lymphædema from other types of cedema may be found in analysis of the fluid in the cedematous areas, tests of the speed of circulation of the lymph in the extremities, or some method of visualizing the lymph vessels with dyes or by roentgen studies The author believes that the expension mental production of chronic lymphædema would

In conclusion Allen says that relatively little is be an important step in the solution known about the bacteriological and pathological changes in the lymphædematous extremities, and that the etiology and the mechanism of production of lymphodema cannot be fully considered without the information gained from a careful study of the pathological changes and the bacteria involved

Mellière, J, and Olivier, HR Surgical Treatment liere, J, and Olivier, D & Surgical Freatment of Arterial Hypertension (Traitement chirurgical of Arterial Hypertension (Franciscon Chira, 1934, 44 des hypertensions artérielles)

During the last twenty years considerable evidence has been accumulated with regard to the rôle of the endocrine glands and the nervous system in or the endocrine granus and the nervous system in arterial hypertension Recently, section of the splanchnic nerves or suprarenalectomy has been done in quite a number of cases Arterial hypertension is not a morbid entity but a syndrome.

Essential hypertension is of two types permanent and paroxysmal In progressive permanent hyperand parolysman and progressive period during which tension there is at first a long period during which httle besides the elevation of the blood pressure is to be found This is followed by a period during which signs of functional impairment appear in various signs or inneutonal impairment appear in vanous organs such as the kidneys, heart, and lungs Parorgans such as the Muneys, heart, and tungs I are oversmal hypertension may come on at varying in tervals. It is characterized by signs of localized or generalized vasoconstriction such as headache, epigastric pain, dyspncea, and anginal pain, and is often gastic pain, dysphosa, and anginar pain, and is often accompanied by fever. The paroxysmal type may

gradually evolve into the permanent type Hypertension may occur during puberty, the menopause, or pregnancy, after hysterectomy, and in cases of tumor of the suprarenal cortex, hyperthyroidism, obesity, diabetes, lead poisoning, syphility htic aortitis, and a variety of other conditions affecting the nervous system, vascular system, or kidneys The authors give a brief resume of ten cases reorted in the literature which were treated by secported in the metature which were deated by section of the splanchnic nerves and thirty-six cases in which suprarenalectomy was performed. They distributed the latter of the

vide the latter as follows

1 Five cases of suprarenalectomy for paroxysmal hypertension with ablation of chromaffin tumors of the suprarenal medulla or analogous tumors in that 2 Five cases of suprarenalectomy for permanent

hypertension with a suprarenal tumor In three of these cases there was a diffuse adenoma or tumor of the suprarenal cortex and in two a tumor of the suprarenal cortex with a suprarenal-genital syndrome. 3 Twenty cases of suprarenalectomy for extreme

hypertension in which the suprarenals were normal or only slightly hyperplastic. In eighteen of these or omy sugmy hyperplastic in eighteen of mesocases there was a permanent hypertension and in

After a review of the results obtained in these two a paroxysmal hypertension cases the authors conclude that suprarenal ectomy is They advocate partial bilateral suprarenalectomy rather than operation on only one side

Brocher, J E W The States of Inhibition of the Bone Marrow (Les états d'inhibition de la moelle osseuse) Ann d'anat palli, 1934, 11 585

The author discusses in detail the neutropænic states and the conditions which may give rise to them. He calls attention to the fact that formerly neutropæna was usually reported to follow either a blood disease or an infection More recently agranulocytosis has been found to follow the use of the X-rays, radio-active substances, benzol and its denvatives, and certain heavy metals. In a group of cases reported there were marked decreases in the leucocyte count after the use of various toxic agents Agranulocytosis and aleukæmic leukæmia in the

end-stages of inhibition are considered to be the results of an insufficient reaction of the bone marrow with a consequent diminution in the defensive forces of the hæmatopoietic system to infection. Brocher regards agranulocytosis as the expression of a deviated or unfinished phase of a normal biological phenomenon

Changes in the Cell Picture in the Bone Marrow in Infectious Diseases and the Origin of the Toric Granulations in the Neutrophile Cells in the Circulation (Modifica-Patrassi, G zioni del quadro citologico midollare nelle malattie insettive e genesi delle granulazioni tossiche dei neutrofili circolanti) Sperimentale, 1934, 88 354-

The object of the investigation reported was to determine whether the toxic granules of the neutrophile cells in infectious diseases originate in the bone marrow or in the peripheral blood A study was made of the bone marrow of sixty-two individuals who had died of infectious diseases In the cases of eleven of these individuals toxic granulations had been discovered in smears of the blood during life To serve as a control, a similar study was made in fourteen cases of non-infectious diseases smears of the bone marrow were stained with the stains that are specific for the granulations studied the methods of Mommsen, Hirschfeld, and Freifeld. Immesture cells of the gran locyte series predominant over the other types of cells, with many mychocytes and a smaller number of mychoblasts. There was a marked abundance of Immature saruphile granules in the mychocytes and even in the metanyschycies and the neutrophiles with red mortel, which indicates upod and incomplete matures, which indicates upod and incomplete matures, morted segreculates. On the other hand, segmental segreculates, and the other hand, segmental segreculates.

The author therefore concludes that the toric granules do not originate in the bone marrow and that possibly in the examinations of bone marrow made bereiotore immature astrophile granules were confused with true toxic granules. He regards it as probable that there is my elogonous factor in the production of these grapulations to the extent that immature cells enter the circulation during the course of infectious diseases. He states that this is indicated by the shifting to the left in the leucocyte picture and the asurophilis of the neutrophiles both in the hone marrow and in the circulating blood. The neutrophile granules of these cells are i actionally weaker than those of mature cells. Under the action of the toxine their reactive caracity becomes exhansted and they undergo a retrogression character ized by intense besophilis and finally become true toric granules A DEST GOES MORRALS, M D

Jarre, H. A., and Cumming, R. E. Pycloperistales Characteristically Altered by Infection, with hours on the Euroctional Behavior of Other Hollow Viscers. Resisting, 1944, 3, 209

The authors state that roentgenological record ig and evaluation of fenction generity do not receive the treation they deserve Particularly in connection with the authory passengs, very little study has been devoted to them. Excretion pyricography pents new opportunities for measign steely with violance of some of the fillexest associated with the retrograde nethod in which necessiry true matlain and subjectopical procedures frequently led to fit by conductions.

As a preliminary: the report of their favestigates the netheron does not stone length our present have helps regarding the muscle things to the netheron for extraor and all attention to previous in estingations made mustly by floorinorgis studies of inpected fluids by the retrograde process. In their own mentiograms they employed the serial roral groupspales method and charge carrieds prebog raphy th various method. They medide in the article several preliminarity of the present present and the present present and the present present and the present pr

The technique used is obtaining the contrenograms is described in detail. Series of account ind rathologoul polograms are presented to show repier and abnormal persistitic cycles traversing the various remail segments. The motor phenomena are regarded by the author as analogous to the gradients of peristalsis conceived of by Alvarez is connection with rhythradelty irritability latent period, tone, muscular strength, and metabolic rate for the guatro-intestinal tract.

The a thorn andlings are summarized as follows I. A rhythmic, progressive, descending properistables of the normal renal pelvis is demon-

strated by fast serial pyelography

3. This is different from the alternating type of renal peristables described by Lepous, Fey and Truchot, which is considered to be the result of suphysiological or pathological conditions, but seems to occur regularly with any instrumental or infectious distributions.

3 Pychonephritis produces a characteristic alter atton of pychocristalsis ranging from alternating peristalsis through inhibition to complete organe immobilisation, depending on the type virulence, duration, and location of the infection and the rection between the infecting agent and the host

A The characteristic functional effect of low perureteritie is above by properhials and antiperis-

talsis in the upper areteral segments

Analogies and characteristic differences in the functional behavior of various hollow winers are briefly renewed and reference is made to previous publications along this line, especially with regard to provide the procedular peristalists in health and certain december of the procedular peristalists in health and certain december of the procedular peristalists.

Benestt, T. Li Cee. Discuse Leavil, 934, 2 730 Geo. discuss, which was described by Geo. according affection, has been designated also as "neto-report special with a "Steps his trateories." Benest reports the case of a grid dring at alimiters year of age who had hed the condition all her his. If then discusses the mala fee turns of the discusses as the hall of this case and cases previously reported.

name of times and case persons, reterror, the control were cover above. The facts in were cover above. The times than half of the direct fire were cover above. As most of the fat is spirit, it is parented in function is adequate Amenia is usually present. It may be hypochronic, but tyroully its hyporthronic needs to tryingly its hyporthronic needs to the cover the fact disclinguishing the hosy determines the time of the fatter of the fatter than the control of the cover the fatter disclinguishing the hosy determines in the control of the cover the fatter of the cover the fatter of the cover the fatter of the cover the

In the treatment the diet abould be at free from fat as possible. Large dones of tron and calciers has e a good effect. Liver extract is of value for the macrocrite type of naemle. In cases with excessive gas formation from the dietary starch ratiandisation is beneficial.

Part 3r ss, M D.

Raberts, S. R., and Kracke R. R. Further Studies on Granuloperola, with Report of Twelve Cases. Ams. Int. Med. 234, S. 29

Twelve cases of cute, complete granuloperais are reported. Attention is called to the fact that six of the patients were lean, pule, authoric women with little reserve Of the eleven patients who died, two died in a second attack and one in a third attack Only three of those who died developed a leucocy tosis omy three of those who then developed a leucocy tosis after the granulopenic attack. Treatment by irreduced the granulopenic attack. radiation, transfusion, and the administration of liver extract, pentose nucleotide, and foreign protein was disappointing Adenin sulphate was not used as the authors see no reason why it should be of aid The objectives of treatment are the maintenance of life and strength by general measures and stimulation of the bone marrow The latter is apparently impossible by any known drug or specific measure After necrosis and sepsis in two of the reported cases the authors observed a rise in the granulocytes from none to 25,000 and 40,000 respectively in four days. They believe that sepsis and necrosis are the chief desiderata in every case of complete granulopenia, and that it is well to avoid surgical treatment of the necrotic areas For cases with no evidence of sepsis and necrosis they suggest the injection of living staphylococci into the skin or the intramuscular scaphylococci into the Skill of the intramascum of administration of from 5- to 10-minim doses of turpentine Their patient who survived was treated with injections of turpentine

The authors use the terms "complete granulopacnia" and "incomplete granulopænia" to distinguish the rare disease from the frequent disease evolution of the condition is divided into five stages, evolution of the condition is divided into live states, viz, selective bone-marrow failure, a gradual de crease in the granulocy tes in the blood to complete or near complete absence of these cells, the development of clinical symptoms, sepsis, and, finally, an increase in the number of granulocytes or death The granulopemas have been classified into ten types, of which acute, complete granulopænia is one A low granulocyte count is not proof of itself that the disease 15 granulopenia since a low count (leucopænia) is characteristic of certain infections and may occur in association with others One out of every four patients may he expected to have a mild granulopænia According to the literature, agranugranunopæma According to the merature, agranu-locytosis is of world wide distribution However, most cases have, of course, been reported from eenters in which the blood count is a routine procedure The disease may occur at any age, but is most eommon in middle life Its cause is unknown. It is rare to see a case without a hæmorrhagic tendency The manifestations of the latter vary from hamorrhages seen only at autopsy to a condition simulating The acute, incomplete granulopenia is commonly far milder than the complete form As long as granulocytes remain in the blood there is probably some my elocytic activity Good nursing, food, and water, fresh air, and a watchful, expectant attitude may be all that is advisable. The tendency in the care of patients with incomplete granulopania

Becker, S. W. Melanotic Neoplasms of the Skin is to do too much

Modern pigment study carried out mainly by means of the silver and "dopa" reactions shows that

at the junction of the epidermis and dermis there are specialized cells which are capable of forming pig-The first sign of pigment activity in the embry 0 is the positive dopa reaction in a branched cell in that location This is followed by the appear. ance of melanin granules in the branched cells and ance of metanin granules in the oranged cens and later in the palisade basal cells. The pigmentforming cells are called "melanohlasts" in contratorming cens are caned menanoniasts in contra-distinction to phagocytic dermal cells which are called "chromatophores". An increase in the number of melanoblasts at the epidermodermal junction results in a smooth brown nævus elevated navi the dermis shows masses of palestaining cells which are similar in staining properties and pigment content to the epidermal melanoblasts and pigment content to the epiderman metanoonasta and are thought to be derived from the same source The source of melanoblasts is not definitely known, but more and more workers are accepting the theory that these cells are of nervous origin. If melanoblasts are located deeply in the dermis a blue nævus or Mongolian spot results The distribution here is essentially the same as that in the blue skin of the

Pigment activity due to irradiation by ultraviolet or alpha rays consists of prominence and branching of melanoblasts followed by hyperpigmentation of palisade basal cells Pigment activity occurring spontaneously with no demonstrable cause results in the same histological picture. The resulting lesion, known as "lentigo," has no relationship to the common freelle known as "ephelid" If this stimulation of pigment activity increases to the point at which melanoblastic proliferation occurs, the lesion is known as "lentigo maligna" and is already a malignation occurs, the lesion is a malignation occurs, the lesion occurs, the lesion is a malignation occurs, the lesion occ malignant melanoma Further activity results in a melanoma of either the fusiform cell type—the socalled melanosarcoma or the ovoid-cell type—the melanocarcinoma
The occurrence of both types of eell in the same primary or metastatic growth demonstrates the futility of trying to classify, demonstrates the number of carcinomata melanomata as "sarcomata" or "carcinomata" The best designation is "malignant melanoma," The melanoma arising from a pigmented navus has its origin in the melanoblastic cells at the epidermodermal junction and not in deeply lying nævus cells as has been sometimes supposed.

"Melanotic epithelioma" and "pigmented epitheliona" are terms used to designate a benign epidermal neoplastic tumor containing considerable melanin Lesions of this type are closely related to the so-called senile or seborrhæic verruca and almost never undergo malignant degeneration. In a study never unuergo mangnam degeneration in a study of cutaneous carcinomata it was found that 33 per cent of the basal-eell tumors, 14 per cent of the intermediate-cell tumors, 9 per cent of the mixed-cell tumors, and 7 per cent of the squamous-cell tumors contained melanin demonstrable by the silver technique The pigment in these tumors is due to the presence of melanoblasts which cannot be distinguished from normal melanoblastic cells on the basis of the type and arrangement of the melanin granules In rather unusual cases carcinoma of the

INTERNATIONAL ARSTRACT OF SURGERY breast which has invaded the aids to intimately press; which has invaced the arm a minimate, associated with metapoolisatic cells which are normal

Connes da Costa S. F. The Action on Octable Costa S. F. The Action on Octable Costa S. F. The Action on Octable Costa S. Theorem Costa S. Theo

Substances That Cause Hypothycamia (Artic manufactures that came impagreement (attached section of the control of technology) (attached section of technology) (attached secti

Without showed the important part played by carbohydrates in the metabolism of cincer these carpooyurates in the metabousm or cancer transce There are many similarities in the charges of metab. A man a signatury semistrices us the countries or metable odden in disherter and exacer. The effects produced by insulin in diabetes and cancer too current insurance to the state of the state o by maning in camputes and cancer are very summer to those produced by raction in cancer | Deco nears | led the author to make a study of the affects proled the author to make a study or the enters pro-duced by arbitances that or one hypogyreems on extends date metabolism in temper theory. From his transaction to the arrival for the following the his following the state of the following the con-taction of the state of the following the con-taction of the state of the following the con-taction of the state of the following the state of the state of the state of the following the state of th

exposit orate mensionism in times casarie riven has investigation be draws the following conclusion. his investigation has drawn the following conclusion.

Localin injected into terror-bearing animals are comes decrease in the size of the terror bett out in the control of complete disappearance. In animals painted with compacte disappearance to ammais parties and tar insulin retards the development of tomor. And why aith cracts are mode tangered to the extent of men with career are more reasonate to the account positive and frame theory contains a superconce that carries bypogypropole, an inculated a superiore than in more confident in importance than in portant is move accurated in these three four in normal the descriptional of calibrae porp of normal and toe toerengement or curvature tourn or normal and famous benefit Cancer than is more according to tamor passes cancer cases a more sensitive to this section than narmal trainer. Very west concess trations of insulin may have the development of cultures of tumor tienres

Canada in cursor cases
Lindin increases the consumption of shoose in
calcura, particularly when it hability their developthereta, paractically when it minists over neverop-ment. Both stable and shrable shoone can be ment Both Rama and engance success on a second engant state of the blood of persons with close to the amount of the latter is less than the amount in And canadate of the states to the case of another in the formal blood and firster than the amount in the norms thoog and greater toon the statement in the most or distorted framely forms cause the production of unrathe photon in the blood of persons the causer but this is see marked than in the blood of the blood o ferrous in causer our tree is see courses ones in the blood of disberto. As in formal individuals, sincose is found in the serum of dispeties and person generate is found in the section to conserve and per section of the collected form, but in solution and not complyed with indicates

in any contention with providing the first the content of the blad hap of normal rabbits in small does of cree hypergly comis, and to large does, Enast Ower or pass appearancement, and so so serve seems.

After tradition of tumors in dogs hypersonana Auter enautress or tuness as tags, there is hypersolonalments and hypersonana tors in appearancement and appearancement. In normal or diabetic dops and men irradiation in normal or onners copy and onen annuacous cames appearance means and appearance followed by hypermediatents and appearance in a particular and appearance in the control of the particular form of the par an answer with turnors the hypersystems caused by first land at the caused by industrial the caused by the caused structure in normal rational las parcentage or structure in Elarich admocarcinoms in mice destrongen in Lattice amenoratements in max to creases as the development of the tumor propriets This is true of the givengen of the fiver which is this is due to the privates or the next which as

of tumor-bearing animals causes a decrease of ce tunen-pearing someth causes a decrease of former som in the times and in the unit in the transfer a transfer outcomy there is a more number of from in the transfer than in the brown and the large is furnished at the brown and the large is furnished at the large is transfered at the large is At neutror the turner was the many as instances as secretly the decrease of glycogen is greater in the in or

and in the trainer.

In take with adenocarcinous the injection of to mice with suspectations are increase to present a faculty with phone crime a decrease of proper in the times and particularly in the liver is among any inner and particularly in the fiver in amount in the inner in amount After taking manual most not retries the symmetries of gyringen in the arer as n does move normal conditions. The percentage of factic acid in the times. outcom the persons or meta-aco in the image and blood a much higher in persons with cancer than and percent a much import in persons with cancer than in normal healtwiden. The metabolism of the cancer an normal montrollers if he measurement at the cancer of the partly a metabolism of cardiation and partly a cer is turnly a merandamic to oncorne and banks of metabolism or removable function which is comthe only known metabolic function which is com-patible with Indexe profigation which is com-landed when profigation of times exis-landed decreased protyles in states that the concentration decreased in states that the pro-cessed of the company of the com-pany of the company of the com-pany of the company of the com-tant of the company of the com-tant of the company of the com-pany of the company of the com-tant of the company of the com-tant of the company of the company of the com-tant of the company of the company of the com-tant of the company of the company of the company of the com-tant of the company of the company of the company of the com-tant of the company of the company of the company of the com-tant of the company of the company of the company of the company of the com-tant of the company of the company of the company of the company of the com-tant of the company Sycolysis Dilly still stronger concentrations the

Action is retrieved.

The reducing power of tumor these is greater than that of around in more those Girtz-indocents in the form of the control in the first of around in the first of a substitution of the control in amon natures protonosems in some was topod. The action of health, pandid, sorphise and coded on the relacing capacity of models in estimated to braining calenda of maces a contration. License and decrease alternate as the cruitation, increase and occrease attrease as are concentrations increase. This is true also in inner times which seems to be more acceptive to these

The local application of insults in the proper design trings about destruction of canceros stems compensation of the skin and retrogrammer of constant and recognization or thems cancer visits fundamentally and the fundamental and properties and a substant A and B morphies codes. guantum of mineral A and a morphism man also care ergonamus, and expense or gamps, may any cases citestriantion of experious electrs of the aim is proper citationales of canorines sixers of the akin is proported being. Does of morphine, especially, and service services, and services provide for the control of terms of the citation of the cita growth in terms times for accurate or opens, which do not claim hypoglycemia do not have any effect on skin cancers

Roomigen ray lend at tion in denset of from 2,800 to According to the middle flows of from the or the color of the tile of the middle flows of from the order of the tile of the color flows of from the order of flows of from the order of flows of flows of flows of flows the order of flows of flows the order of fl 6,000 r cettes exact the time report assess to strong journal of exposed. but at rule described one on orman is in particularly but the normal state of the rubbit after experior all of the skin reaction to normal Armstallation appear cartier and are more because These symptoms dampear more rapidly in the side of the third that has been treated with insulin than or the targer time has been account who means to the third that has not been so treated The injection of fraction does not sensitive the stin of to appear or manuscrate and appearance in the action of receiving any indicated decreases the confering receiving of the action of the action

pacity of the muscles and particularly that of tenor

tissue. Irradiation of muscle by roentgen rays in vitro with a dose of 300 r increases the oxidationreducing capacity of the tissue, but this has not been confirmed by irradiation in 1100 Insulin intensifies the action of roentgen rays on the oxidation-reducing eneaction of rocated and particularly on that of tumor tissues except in cases in which a very strong or a very weak dose of insulin in itself increases the ordation-reducing capacity

Outdation-reducing capacity

Outdation-reducing capacity

Outdation-reducing capacity cumstances the association of insulin and roentgen rays seems to increase the oxidation-reducing capacity of muscle, and particularly tumor tissue, still further Ulcerated tumors of the skin which are resistant to irradiation do not heal readily under the local action of insulin, but preliminary application of insulin overcomes the ridioresistance and intensifies the action of the rays to such an extent that the ulcers can be healed by one-half or one third of the dose of irradiation that proved ineffective before Ulcers which often give rise to malignant tumors may be healed by the local application of insulin

Cases, A E The Experimental Alteration of Malignancy with a Homologous Mammalian Ilignancy with a Results with Intratesticular Tumor Material I Results with Intratesticular Inoculation Am J Cancer, 1934, 21 760

Many investigators have reported that the injection of devitalized cells from embryonic, mammary, and tumor tissues will increase the susceptibility of rats and mice to tumor transplantation "manuring of the ground" was brought about by "manuring of the ground" was brought cells sub-injecting an emulsion of the devitalized cells sub-cutaneously ten or fifteen days before the tumor inoculation the effects on the primary tumor The mated from the effects on the primary tumor mated from the effects on the primary tumor cocurrence of metastases and phenomena of true mated as criteria.

In the experiments reported by Casey the effects malignancy were not used as criteria. of the parenteral injection of a homologous tumor material two weeks prior to tumor inoculation were studied in relation to the growth and malignancy of the Brown-Pearce rabbit tumor Groups of rabbits injected intratesticularly with this material and injected intracescentary with the natural and inoculated with the tumor two weeks later in the same or the other testicle were compared with control groups inoculated with the tumor only During a period of two months the material did not of itself produce a tumor or any evidence of an inflammatory tissue hypersensitivity in the testicle, However, it was found to alter the course of the malignant disease in the direction of increased malignancy was observed not only in the incidence and the size of the primary growth, but also in the incidence, number, size, and distribution of the metastases The time of occurrence of paralyses and the length of life of animals dying from the tumor were definitely shortened and the mortality from the disease

was increased
The nature of the substance concerned is still unknown, but evidently the substance is not present in fresh and actively growing tumor tissue in an

active form or in such tissue is associated with a substance or substances capable of masking or suppressing its activity. It is present in tumors which pressing its activity to is present in tumors which have been removed from animals and preserved for a period of ten days or more and in tumors left undisturbed and preserved in the animal body unuscuriore and preserved in the animal body. The time required for its development or activation and the time during which it persists in an active state in preserved tissue are still unknown, but experiments have shown that the active agent is separable from intact cells and that the effects produced by emulsions of preserved tissue can be obtained also by the use of desiccated material and cell-free filtrates of such emulsions trates of such emulsions active material has been obtained from a tumor of the same kind and not from any other tumor or tissue It is therefore a strictly homologous material With reference to the action of this agent, the

author points out that, so far, there is no evidence that the injection of the material produces a local that the injection of the material produces resensitization. The effects are general rather than local Moreover, they are not transient but enduring, a fact constituting additional evidence of the profound systemic action of the material profound systemic action of the material evidence, experiments with mouse tumors have revealed the existence of at least two other homologous the existence of at least two other homologous the existence of at least two other and mouse tumor-enhancing materials, one present in a mouse carcinoma, each sarcoma and the other in a mouse carcinoma, of which differs both from the other and from the

rabbit-tumor material.

Casey, A E The Experimental Alteration of Manignancy with Homologous Mammalian.

Malignancy with Homologous Inoculation of Material Intracutaneous Incompared Material Am J Cancer, tion of Preserved Material Am J Cancer,

Experiments were carried out to determine whether a homologous tumor material which enhanced every observed phase of the rabbit tumor following intractions of the rabbit tumor inculation of the testicular inoculation would have a similar effect following the intracutaneous inoculation of the Brown-Pearce rabbit tumor into the flank. Groups of rabbits which received injections of the material of rabbits which received injections of the material in the skin of the flank and inoculated with the tumor in the same or a neighboring area two weeks later in the same or a neighboring groups subjected only were compared with control groups subjected only

The results in the control animals confirmed the previous observation that the rabbit tumor which to tumor inoculation 13 malignant following intratesticular inoculation is a spontaneously regressing, non metastasizing growth following intracutaneous inoculation into the flank. However, in the experimental animals which had been treated with the homologous material more rapidly growing and persistent local tumors occurred more frequently Moreover, distant metastases were discovered in a large percentage of the animals Therefore, in enhancing both the primary and the metastatic phases of malignancy the preserved material is not dependent upon intratesticular moculation and is able to overcome the natural resistance of the rabbit's skin to the tumor

action of this material was not affected by sex or immaturity

During the observation period of tamonths there was no evidence that the preserved material will of Itself produce tumor growth. After from four to ten days no pelpeble lesson remained at the site of the injection of the preserved material and the animals showed no clinical signs of illness or an infectious process. An injection of fresh tumor tissue followed two weeks later by a second inoculation of hving tumor did not result in more mallement course of the disease. Therefore the phenomenon of enhancement is not due to the completive effect of repeated doses of tumor theses, but must be explained on some other basis. Berkeleld & filtrates of the preserved material have the same potency as the unfiltered emulsion. JOHN E. NAME, M.D.

Price, L. W. Metastasis in Squamous Carcinoms. Am. J. Canor. 234, 1.

With the possible exception of those in the local lymphatic pineds, secondary deposits of squamous acressoms are somewhat rars. The problem as to what factors determine their development in one case of squamous exchanges and their sheenes in cinneally similar case has not been satisfactorily solved.

In a series of 15h consecutive stoppies carried out t the Glasgow Royal Canes: Hospital in cases of secusnoss carcinoma of various regions of the body the primary site and the sites of distant metastaces were found to be as follows:

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Price reports dilutal study regarding the possible ethiopeas relationship to the development of measures of () the patient size, and general condition, () the duration of the disease, (s) the site of growth of the primary tumor (4) the interval between the appearance of the primary tumor and the development of measures, and (s) the degree of destruction of normal turner. His findings and coordinations are summarized as follows.

relationship between the climent and pathological findings indicates that there is no correlation between the climical condition of the patient and the development of distant metastases

s. There is no constant relationship between the site of the primary tumor and the site of the distant

metastases. The most common sites of metastases in the cases reviewed were the lungs ( 3 cases) the liver (7 cases) and the kidners (5 cases)

3. In a wider study of the development of metatases from numerous primary tumous of various types, the only definite findings are that tumous arating in certain primary sites have a tendency to form metatases in certain tissues and that there is pecular relationship between the site of the neitron present and the site of the nei-

many fumor and the sites of the secondary deposits

Jostew K. Nasar, M.D.

#### DUCTLESS GLANDS

Davia, L. The Ralation of the Hypophysia, Hypothalamus, and the Autonomic Neurona System to Carbobydrate Metabolism. Am. Say, 1914, ros. 64

In an tempt to explain some of the waysteen of disturbed carobidyrate metabolium in case of diturbances of the hypothysis and the related strateres, the author carried out three series of experments on case. In the first series the pancres was removed and later the hypothysis was changed with the Hemisty-Clarks attention; pantitus in the second series the lesions are no produced in the hypothysis and series the strategies are specified actes, stemplates experiments were particle out to

the entonomic pervous system In the one animal of the first series that survived the operative procedures there was no ensuing evidepen of diabetes. The accelle had entered in the saidline, passing through the third ventucle. The lesion destroyed a segment of the auterior loke of the hypophysis and small part of the pars pervota, and had cansed alight damage t the pure tuberahs. The fafunchbulum seemed to be at least partly blocked by sear time, and the pars toberals was shightly pertrophied with acini greatly distanced by colfold. The postoptic communities, the ventral periventricular nucles, and the gray substance of the the of the tuber fast rostrad to the infundibulan were demaged or entirely destroyed. In the light of the work of those who believe that the products of hypophysical secretion pear from the pers intermedia by way of the tusue spaces in the pare nervous to sumois to the tuberal and other anterior hypothelamic socled, it was interesting t mote that m this sales i the infundibulum as partially blocked and the space separating the pare intermedia from the anterior lobe was distunded and contained a large amount of homogeneous material. It has been suggested that as result of nervous impulses from the hypothalamic undel, ripened secretory cells are cast off, isvans the pars nervote, and become hyaline bodies which make their way through the para person toward the infundabalar ravity

I the second sense of the author's experiments it was found that to the animals which servived the pancreatertomy following the hypothalamic lakery the hypothalamic lesions were pieced so that they involved the region of the forms and affected the performed nuclei. They were situated in the tuber cincreum, where their position was slightly rostro-dorsolateral to the mammillary bodies. It is at about this level that the ventroniedial hypothalamic nucleus lies. The lesions in the animals which did not survive the parcreatectomy did not seriously affect this region or left it entirely unseathed on one side of the hypothalamis. The evidence indicates that the hypothalamic lesion must be not only in a given area, but also biliteral and symmetrical

Stimulation of the superior curvical's impathetic ganglion or the stellate ganglion results in elevation of the blood sugar and glycosuria, but in the author's experiments in which hypothalamic lesions were produced such stimulation did not result in glycosuria. The conclusion is drayn that the glycosuria is the result of the stimulation of the hypothalamic nuclei by the hypophyseal substance which in turn results from the sympathetic stimulation.

Jone Mursu I cros. M.D.

# Fillson, I. T. and Wolfe, J. M.—The Effect of Castration on the Anterior Hypophysis of the Female Rat. Ind. curreless, 1934–18–585.

That, in rate eastration leads to an increase in the relative number and the size of the basophilic elemerts of the anterior lobe of the hypophysis a luch become modified and give rise to the so called castration cells appears fairly definitely established However with regard to the changes in the co inophiles there is no consensus of opinion. Therefore the author-studied the effects of castration in male and female rats at de inite intervals after castration These studies were both quantitative and qualita tive. Differential cell counts were combined with an anal six of the morphological changes. The work vas controlled by observations on 40 normal female rats, and due cognizance was given to the studies (Wolfe and Cleveland) on the histology of the anterior lube of the hypophysis of the female rat in relation to the cell types

The results of the study of the hypophyses of 100 female rats from which the ovaries had been removed from tive to tive hundred days previously were as follows

I rom five to lifteen days after castration the cells of Type 3 often exhibited a granular loss. After this time they rapidly increased in size and became packed with granules which stained deeply with aniline blue. At about the thirtieth day after castration, large colloid vacuoles appeared in these cells and typical 'signet ring' castration cells were observed. In thirty day castrates the average percentage of these cells was 14 2 as compared with 46 in normal non castrated females. I rom the thirtieth day after castration there was a gradual decrease in the percentage of the basophilic elements.

In animals castrated for thirty days, the percent age of castration cells was low (0 9) Thereafter, the

number of these cells increased rapidly. In animals eastrated for one hundred eighty days their mean percentage was 13 o per cent. During the same period the percentage of cells of Type 3 decreased.

During the first sixty days of castration there was a moderate increase in the percentage of cells of Type 1 (cosmophiles). Later, these cells tended to decrease in number

There was no morphological change in the cells of Pupe 4 (chromopholos) after castration

Colloid accumulated in the residual cleft following removal of the ovaries A. F. I. vsn., M.D.

#### Attken, R. S., and Russell D. A Case of Simmonds' Syndrome I arce', 1934, 227, 802

The authors describe the clinical and pathological features of a case of Simmonds syndrome—the syndrome of pituitary cachexin—which appeared after destruction of the pituitary gland by humorrhage and a chromophobe adenoma of the anterior lobe of that gland

Syngre Kans, M.D.

## Bratton, A. B., and field A. B. A Case of Simmonds' Disease Junces, 1034, 227 806

In the case reported by the authors a long series of pregnancies was followed by progressive weakness and debility, amenorthous, loss of pubic and avillary hair, headache, vomiting, anorexia, and a subnormal temperature. At one time the symptoms suggested a mild degree of hyperthyroidism. Autopsy disclosed by mphadenoid inilitration of the pituitary gland, destruction of both the anterior and posterior lobes of that gland by fibrosis, and atrophy of the other endocrine glands and other organs.

Unusuri features were the absence of obvious wasting and the destruction of the posterior lobe of the pituitary gland by the fibrosis. However, cachesia vas not invariably present in the cases of Simmonds disease previously reported. When the anterior lobe of the pituitary gland is destroyed by fibrosis the posterior lobe almost always escapes.

SAMUEL KAHN M D

#### Grasso, R The Possibilities of Local Injury to the Tissues from Injections of Adrenalin and Adrenalinized Solutions (Sui possibili danni locali delle iniczioni di adrenalina e delle soluzioni adrenaliz zate) Arch ital di chir, 1934, 37 I

The lesions resulting from the parenteral administration of adrenalin range from simple non microbic necrosis, which is most frequent after the use of adrenalinized solutions for hypodermoelvsis or in filtration anesthesia, to fulminating gaseous or gangrenous phlegmons following the intramuscular injection of such solutions. The thirteen cases of lesions of the latter type which have been reported obviously represent only a small percentage of the total number. Grasse has recently observed three cases of gangrenous (py ogenic) phlegmons.

In this article he reports a number of experiments—apparently the first on the problem—to determine the relative importance of adrenalin per se and of

becteria in the production of such lesions. A phicrmon was never produced by the mechanism of endogenous infection (the production of a haciliarmia followed by the intramuscular injection of adress in) When intramascular injections of infected solutions of adrenabn were given, abscesses were produced in So per cent of the experiments in which tuphylococci ere used, gaseous gangrene in on per cent of those in which the becaling perfringers was used, and molet gangrene in 70 per cent of those in which the bacillus of malignant ordens was used Control tests with similarly infected solutions of various

ther drugs were negative. Even more beauty contammated adrenally solutions injected into rickly vascularized orwans such as the toproe and myocardium never caused phlomoms, and in thenes of the ear or leg rendered hypersenic by a sympathec

tomy they troduced only mild ledons

Sterile adrenalin solutions did not cause local lesions but contaminated adversally solutions often caused immediate death with the picture of acute polynomary orderns when given in less than the lethal doso. Sterile drenalin solutions from fisks (the type for general surgical use) always caused ex tensive non-progressive necrosis. Adventilated salt or glucose solutions for hypodermoclysis never pro-

doesed nectorie.

The favorable influence of adrenalis on bacterial growth is due to its vasoconstrictive action which retards absorption and decreases local defenses Possibly there is also comcomitant toric action. The presence of becteria retards absorption, they increasing the deleterious local effect. Stenle stires allin passes quickly int the circulation, causing so local damage but overwhelming the heart.

Clinically concomitant factors such as conditions which reduce local resistance and such as the tendency toward alkalinemia and disturbances of the sympathetic acresus system is broached asthma, are of more importance than contamination of the eal than.

From his findings Grasso concludes that any substance injurious to the though or having a speconstrictive action should be injected very slowly with the most acrupulous preen thous for sacrula and that afterward the site of the injection should be managed energetically ad but are bug should be applied for several hours. When the pericheral circulation is precarious, advessus about eather be avoided or given intravenously. For mfiltration anesthesia, adventis preparations of the hypodermic type should be used Adrenalished solutions abould not be employed in conditions Lnown t favor necrosis. The only prevention of endogenous infection is, possibly the voldance of advenalls in the presence of an acute intestinal deterbance. The physician should not be held responsible levally for the occurrence of adrenalis gangrene

The author's cases and experiments are reported in detail. The article contains Illustrations and is appolemented by an extensive bibliography

M E Mone, M D.

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Therapeutic indications of diathermy electrocoagulation

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A new method of diathermy 784

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The effect of ultraviolet light on some sympathomsome sabetances. P L Ewren. J Lab. & Clas Med. au.

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Present methods of treating neck metastares by mintion at the State Institute for the Study of Helman Discess at Beffalo, New York B T Starter Radefort 014. t 476

#### MISCELLANFOUS

#### Clinical Entities - General Physiological Conditions

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The complementary actions of vitamies P E Science. Acts Soc med Fensione Duodenso, Qu. 6 Fast

Complement studies in statambases P E Susosa teta Soc med Fermione Duoderna, att. 16 Fest. L.

A stammone stades in genera pigs P E Science Acta Sec used Fension Decolector, 235, 6 Fasc h Sciency and traums T T Provinceous Lasta Klur t pagren obl

regree old 0.51, 23 307 The effect of distant combinations on scarry is guizes pup P E Source Acts Soc med Fernant Duscherses, 231, 6 Fase No 4

133, 6 Fase No 4
The absorption of destrose and water by the small satestine and the colon, an experimental study R. A. Corre-(1511 I've. Arch Borre 954, so 641 Glycomena in arternoclerous and septemenal gangrose

T D Amery \ests Kinr pogras obl 934, 33 22 The biliothen contest of the error in healthy nonpregnant, preynant, partnricht, and purporal season. S. to Face, No
The relationship of organic disease to money A. 3. 8.

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The internance of Depaytern concentrate C is Semonant. Zentrulbi i. Clar 33.1, p 143. Applydation—a base problem in medical education W. Pamatra Am J. Surg. 1434, 36. 6. Pressury shock. D S. Pagasarra and H. Levysch

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A consideration of possible torpe and servous factors in

the production of transmitte sbock. W. B. C. very App. burn \$14. 00 yes. The effect of adress) cartical extract in controllar shock following the injection of acronous extracts of ciones entestinal loops G | Han sa and H Drill A wortes (164)

Aun. forg 034, 00 754 [154] Practice in personal endoscopy T E (airves South.

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The vicerrogonal syndrome, containing factor in six goal diagnosis. J Britis and R F Ars 27 Arch Serg. 234, 20 60

case of post transmitte orderes cured by sympather. teery Dr. Rougemovrand Politonery Lyon chir 914. ÁVO.

Lympherdens of the extremeters chambration, etalogy and differential dispusses. A study of 900 cases I 11141

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Baccanta Ana dunet, path 914, 485 [181] Changes in the cell pacture in the home marrow in user tions durages and the oness of the tono grandetons as the scatteroich cuile in the constitute G P recor

Spermentale, 934, 38 314 [161] Surgical Inhermalana, U. Rouzernov-La ALLE Remain gold , 934, 4 5 7 Caltaral methods in the diagnosis of surgical inheres-

lone A BERTH I terreben & New Zealand J Sery 934, 4 55 The trustment of surgical taberculous by practical

methods Durvo Arch. do ned carus y sepercial and The levelene of the old Floorish both houses K. F. HILTERALD Acts Soc. med. Fernite Ducoccue, 415.

Id Fast L Professoratabas characteratically altered by infection, with motor on the functional behavior of other hollow risters H A J and and R E Consesson, Rechelogy 1454. 1163

An echinececcus cyst in the subcutations theres of the thigh J Sparrs and J. B Mason Practificate M J 944, 35 Starrs and J. B Mason Practificate M J 744, 35 Starrs are starry of present surpoid discusses the artificial gapting pages D P Jimonowace Vesta Khar I popula

old 034, 23 35
Generally cold abscess of the thirth Roccety Lyon cher

254.3 636 Calemone man grain, further note on Shekkus's ere previously shown 2. It report and R A McCaver Froc Roy See Ved Lord 914, 7 148;
The technique of operation for pictudal mass. R B Carrett. Serg Clm North Am., 934, 14 189 A study of permation in 500 persons intents. IL E.

DOTALLY and M M YESPOLETY J AM M AM BH. Ger dames T 1 Brevers Lincol, 934, 7 794

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The charal darross of fat coholom B M VAN'L. Am J Surg 234, 20 27
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Granulocytopænia State M S DONAROF and G COTTIME J. J. ancet 1034, 54 651

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#### Surgical Pathelogy ad Diegnosis

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# International Abstract of Surgery

Supplementary to

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#### CONTENTS

I	Authors of Articles Abstracted	11		
11	Index of Abstracts of Current Literature	111-711		
ш	Abstracts of Current Literature	193-272	41	206
IV	Bibliography of Current Literature	273-296	the cross in	206
				206

the So-Called Apocrine Sweat

212

Editorial Communications Should Be Sent to Franklin H Marrin, F Editorial and Business Offices 54 East Erie St., In Great Britain 8 Henri - St., Covent Garden,

#### AUTHORS OF ARTICLES ABSTRACTED

Balacio, M. 201 Barlow, O. W. 259 Bary L., 158 Bayerol, M., 248 Beer B 15
Bearing J, 200
Bertin, D D, 97
Bertiniotio U, 265 Bertolotio U, ség Blalock, A, réy Blancapart, H. L. or Bonney V. E. Bonney B. H. see Brena, G. E. sou Brena, G. E. sou Brena, G. E. sou Brena, G. C. to Baghes, H. G. 217 Bracito A, 58 Cannero, M. a45 Canarero, M. a45 Castegras, P. 30 Castegrat, F. 30 Cartle, J. R., 229 Colla, C., 243 Chinace, R. V., 24 Camboirs, A. E. 223 Carategram, F. A., 237 Cicer, C., 201
Cockley, C. G. 27
Cockley, C. G. 27
Cockley, C. G. 27
Cockley, G. M. 22
Coller, F. A. 48
Coller, W. A., 46 Collier W. A., ed.
Lamacra, J. F., Sur,
Coryties, F. N. Sur,
Cortie, G. 815
Critic, W. McK. See,
Critic, W. McK. See,
Critic, L. F. 252
Critically M. edd.
Crown, S. J. 183
Critical, M. res.
Darrach, W. 245
Darrach, W. 245
Darrach, W. 345
Darrachywalt, S. De Demolowski, S De Langre, M 15 De Lormon, A 145 Denness, 235 Denhorasta, G Deshardon, A. U ada David, F 167 Dab. ) L 103 Dodd, H. 145 Decadd, C 20 201

ኣ

Domally H H s68 Domesta, H 197 Ducating, J., 33 Echola, G. H., 103 Edwards, A. T. 103 Dolerien, 270 Ersour M S 95 Faxon, H H, 245 Fedororich, D 51 Federovica, D 31
Die, G L., 19
Filles, P 37
Files, P 37
Files, P 3, 164
Florey H, W 257
Flakeness, G F 289
Francische, E 234 FountLO 15 France L. 441
France, C. H., 501
France, R. E., 50
France, R. E., 50 Fricha, R. R., 20 Friendent, G. 20 Cabriell, B., 20, 272 Calores C. E. 20 Casabid, A., 270 Cattler, J. 200 Cattler, J. 200 Cabriel, H. 212 Casabidse, C. F. 237 Cert G. O. 205 Ger G. 0 193 Official, type
Grystons, I, J
Gravon, R, C., 190
Gravon, R, C., 190
Gravon, R, C., 190
Gravon, P, J
Borrosson, F, J
Borrosson, F, J
Borrosson, B, L
Borrosson, B, L
Borrosson, B, S
Borrosson, T
Bo Hodges A C 10 Hoover W B Boyle, C 96 History, A F Hinni, A. F.

Inpercos, B. II. sa5.

Inpercos, B. M., rss,

Information, T. N. A., rss,

Inpercos, B. sap.

Interes, B. so5.

Interes, B.

Kurein, T. J. 250 Karler G. H. 243 Keenchersky 15 Kreichner il l., 17 Kribbiner il L., Krobbear, L. B. Krosbbear, L. B. Krosbear, H. 33 Labra, H., 44 Lehman, E. P. 303 Lenst, M. 400 Leucutta, T 4 Lavy 15 Lary 35
Lacy D 50
Lacarell, G 17
Lasarda, T, 50
Lasarda, T, 50
Lasarda, B 441
MacDonald, D, 641
MacDonald, D, 641
MacDonald, J, E, 500
Macon, T F 300
Macotto, T F 300
Macotto, J W, 500
Macotto, J M, 500
Macotto, J 151
Matheway J 151
Matheway J 151 Mathern J. E., A.
Mathern J. 111
McCorn R. D. 197
McCorn H. A. 401
McCornty G. A., 30
McLinton, H. C., 404 NAME G. 344 Milrota L. A. M. Nisten, L. geo. Nisten, C. G. 97 Nocquot, P. s.m. Nocquot, P. s.m. Nisten, R. L. H. Nisten, R. L. M. Nisten, Natherace, L., p8 Natholese, M. M. 108 Nomina, G., 514 Nordinad, U. str. Oppenhenour, B. S. Octaered, F. C. sot Owings, J. C. 49 Factable, T. 26 Partial, F est Partial, k., sos Particular, in the Particular, in H )
Party, D. H )
Party, E. G 223
Party, E. F 207
Part, M. M., 208
Pfabler G E 244

Piergross, A 217 Potter A L. 220 Red, R., 215 Rechestre, R 104 Ruchenhack, R 104 Repetito, E., s g, 50 Riba, L, W spr Ruther C., 57 Rubb, D sa Basta, E., 342 Bahaser II, 53 Rahapen, L, spi Schopmer, M. J 104 Schopmer, M. J 104 Schwarz, G 3 Scott, 5, ser Screbbott, G., ser Short, A. R. ser Door, A. R. 233 Scapeca, 35 She, L. F. 230 Shepar, E., 249 Sarpher, E., 249 Sarpher, F., 269 Sarpher, W. 364 Statemen, N. 265 Storn, A. F. op.
Syntagers, D. and
Takesag, F. J. 577
T. ylor H. K. rp3
Tholomas, C. P., rod
Thomas, C. P., rod Tudhena C. R., 200 Tudhena C. R., 200 Almecka, R., 15 Vanton J. H. 208 Vactor ), 204 Walter A. E. 204 Walkers, IL L., sue Walteren, A and William A +60
Wenn, A > 20
Wenn, A > 20
Wenn, A > 20
Wenn, A > 20
Wenterdal, F > 20
Wetfeld, B > 20
White, J C, 20
White, J C, 20
White, J = 20
White, J = 20
White, J = 20
White, J = 20
Zenerd, F = 27

## CONTENTS - MARCH, 1935

## ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK		LENZ, M., COAFLEY, C. G., and STOUT, A. P. ROCHL	
Head		gen Therapy of I pithehomata of the Pharynx and Larynx	19
Convors, J. F., and Wricht, L. T. I ractures of the Skull	193	MACKENTI, J. E. Malignant Disease of the Larynx Rite Types, Premalignant Conditions, and Con	20
OIL, J. L., and CROWE, S. J. Thrombos s of the Sigmoid or Lateral Sinus Thirty Cases	103	ditions Simulating Malignancy	200
Skorr, C The Treatment of Fractures of the Neck of the Mandible, Especially in Children, and the		SURGERY OF THE NERVOUS SYSTEM	
Results Obtained in a Few Cases	194	Brain and Its Coverings, Cranial Nerves	
RESIGNATION, E. Fracture Dislocations of the Head of the Mandible	194	WALKEP, A F Freephalography in Children CAIRNS, H., DONALD, C., SCOTT, S., ORMEROD, F. C.,	30
Буе		AND OTHERS Discussion on the Diagnosis and Treatment of Abscess of the Brain	20
SCHOENBERG, M. J. Retinal Detachments. Clinical Experiences with the Diathermic Treatment	195	BALADO, M., and PARDAL, R. Surgical Treatment of Hypophyseal and Perihypophyseal Tumors	20:
minimum inter the Manierine Areathers	-90	FRAZIER, C. H. Bilateral Trigeminal Neuralgia	20
Ear		Spinal Cord and Its Coverings	
COATES, G. M., FESNER, M. S., and MYERS, D. Roentgen Changes in the Petrous Portion of the		PRET, M M, and Ecnous, D H Herniation of the	
Temporal Bone Without Clinical Manifestations	195	Nucleus Pulposus \ Cause of Compression of the Spinal Cord	203
Nose and Sinuses		LEHMA, F. P. Uretero-Arachnoid (Ureterodural) Anastomosis	203
STIELDERG W The Pathology of Chronic Sinusitis in Children	196	Sympathetic Rerves	
		CICERI, C, and GARRIFLII, S Studies on the Variations of Alimentary Glycomia Induced by Al	
Pharynx HOOVER, W B The Treatment of the I ingual Ton		coholic Injection of the Splanchnics Attempts to Cure Diabetes Mellitus	203
sil and Lateral Pharyngeal Bands of Lymphoid Tissue	196	CRAIG, W McK, and BROWN, G E Unilateral and Bilateral Resection of the Major and Minor	-,
Neck		Splanchmic Nerves Its Effects in Cases of Es	
Kena Apajalanti, L. Myvædema in Children	196	Surrawici L. II, Freeman, N. L., and White, J.	204
PARKINSON J, and HOYLE, C Thyrotoxic Hyper tension	106	thectomized Human Latremity An Additional	
McClure, R. D. Thyroid Surgery as Affected by the Generalized Use of Iodized Salt in an En	•	Cause of Failure of Operations for Raynaud's Disease,	249
demic Gotter Region, Preventive Surgery	197	CHECERY OF THE OTHER	
MIXTER, C. G. BLUMGERT, H. L., and BERLIN, D. D. Total Ablation of the Thyroid for Angina		SURGERY OF THE CHEST Chest Wall and Breast	
Pectors and Congestive Heart Failure Brenner, O., Donovan, H., and Murtagh B. L. S.	107	GARNIER, C The Surgical Treatment of Funnel	
Total Thyroidectomy in the Treatment of Congestive Heart Failure	197	Chest HEIMAN, J The Study of Benign Neoplasms of the	206
STONE, H. B., OWINGS, J. C., and GEV., G.O. Transplantation of Living Grafts of Thyroid and	,,	Rat's Breast	206
Parathyroid Glands	198	MALPTAR, J W The Prevention of Necrosis in Plastic Repair of the Breast	206
TAYLOR, H. K., and NATHANSON, L. A Roentgeno logical Study of Tuberculosis of the Larynx and Neck.	205	GEHRKE, H The Relationship of the So-Called Umbilical Adenomata of the Apocrane Sweat	
TOUR	198	Glands and Adenosibrosis of the Breast	212

**207** 

#### Traches, Longs, and Pierra

PEARMON, E. F. Non-Paramon Craine Diames of the Lamp Its Chancel Recognition and Treatment CONTILOR P N Thurstpointy Verms Parents

there . JESSEY, II Thorscopiesty in Balateral Caversion Tuberculous

Enwanns, A. T., and Thomas, C. P.: One-Stage Laboratory for Broachiectane. An Arcusal of Porty-Elect Cases

Mchrone, H.C. Changes in the Longs and Pleton Following Rossigns Treatment of Cancer of the Breast by the Projector Frances Method

#### Heart and Perforation

Mixtun, C. G. Brownast H. L. and Buries D. D. Total Ablation of the Thyroid for August. Pecters and Congestre Heart Fasiers

BRESSER, G. DOROVAN H. and MURRACE, B. L. S. Total Thymodechnery in the Treatment of Congother Heart Fadors

BETERIO, J. Taberraion Percurdata

TOWA, G. Cardine Sympolysm, Braner's Operation.

#### Geneharus and Medicologue Portion of the Œestheron

Henry area, it The American of the Abdrescal

#### SURGERY OF THE ARDONER

#### Abdominal Well and Partieogram

DESIGNACES, G. and Designaces, H. Prevencular Personal Horans

Carrette, H The Relationship of the So Called elical Adenomata to the Apocresa Secut Glands and Adenothroms of the Breest

REPRING E. Librorus of the Anterior Abdenius.

NORMANIAN, U. So-Called Primary Cryptogenetic or Metastatic Straptococcic Pentonitis

#### Cleary Johnston Treet

Nonana, G. The Nature of the Healing of Surgical Wounds of the Stormeth to Relation to the Techname of Seture Employed

Laxante, F. The So Called Latenschromalia Gland LOCATELLE, G. The Supraguals in Acuts Intrated Occione

#### PERSONNE, A Duodenal Devertacula

Data Acqua, V and Vatarrent, R. The Romiger, Appearance of the Normal Macross of the Colon Warrier, L. B. and Warract, H. L. Acute Appendi-

CATALOGUE, J. and Witnes, A. The Pathouses and Treatment of Preblerating and Stemment

BOWING, H. H. and FERGER, R. R. Primity Rectal Carcaneras under Radiatum Treatment

Hower, A. F. Anal Arhabets and Megacolog. Mirrors, K. A Study of Appendiction to Oynecology

#### Liver Gall Bladder Pracress, and Spines

HARROW & C: Isonder Passager, F The Behavior of Calcum in Bone After Total Excisence of the Pole

\*\*\*

441

-

#13

\*\*\*

114

m

**137** 

esi.

\*\*\*

137

21

Ħ

Hazzwo, H. L. The Secretion of Mucro by the Epithebal Orde of the Gell Hadder and the Drperimental Production of Macocale \*\*\*

Securit A R and Parts R. O. Terram of the Cell Madde

so# Markey W. A. Chalecystatis Walsont Stone

Parky, D. H. The Experimental Production of Cholesterous (Strawberry) Gell Bladder

Maccorna, R L and Comme R V Compton Progressitis FARRER R 16 Panermatic Parties Report of Case Care by Peacrestagestrostony

#### GYNTECOLOGY

#### Theres

727 BOTTET, \ The Principles That Should Underlie 900 All Dogrations for Prelance 100 PRAYEL O. The Museul Learle of the Efreine

Dire COTTE, G. and Marsetty, J. Cases of Species Palebets Occurring During the Creen of De-

releasest of Uterros Mysmats Warmanus, P. Does the Microscopical Dispusses
Afford Prognozical Geoduce in Control Cas-

PROMESER, G and Witterstein, K. The Progression

Carcinence of the Partie in the Trethfel. GALLOWAY, C D SchEler's Test for Darly Source see Cell Carcrooms of the Cervit Pottson, L. Lewspinks and Caster of the Carte

Taxona, P. J. Hac Lymphodesectomy with Zen Gainen in the Treatment of Cancer of the Cerror Terrences, G. R., and Commonst, A. E. On the Se-

Called Sections of the Endometrion Moreove P and Dr Laucar, M Sertingate of the 113 Body of the Uterro Breass, H C Uniteral Occionics Following Re-

show Implentation wie the Carrix

#### Adveced and Perfeterine Condeletz

FIRMMAR, C F The Nature of Overy Standaling te Bonoses Jamesans, T. N. A., and Porter, A. L. Est. 1

metrocie as Manifestation of Orange Dre fraction

#### Miscelleneros

\$17

8

120

t30

BOCURA, C. Goodes with Regard to the Cleans As-

pects of Gosorrhou, as the Female Paracastr, T. Rosins on the Consenction, its Specially and its Belower in President

Mittees, K. A Study of Appendicitie in Oynecology CASTARRA, P. Experimental Investigations Report-

ing the Reinbousing Services the Thymne Cliend and the General Organs of Leaguing Female Rabbets Treated with Property Hornston

Bertolotto, U Roentgen Therapy of Gynecologi	_	Genital Organs	
cal Inflammations	263	Kirkurs, T. J. The Treatment of Prostatic Hyper- trophy by a New "Shrinkage" Method	239
OBSTETRICS		CAULE, J. R., and HARRIS, W. A Study of the Com	
Pregnancy and Its Complications		parative Effects of Various High Frequency Currents and of Thermal Cauterization in Pro-	
Schwarz, G Habitual Abortion	232	static Resection	239
Labor and Its Complications		7 reprinted to Americ. The Treatment of Vari- coccle by a New Surgical Method	239
Sjövall, A. A Study of the Prognosis and Man- agement in Brow Presentation  Hennesdann, T. Spontaneous Transformation of a	232	HEFGER, C. C., and Thiraupeau, A. A. Teratoma of the Testis	240
Face Presentation into an Occiput Presentation During the Period of Expulsion	232	SURGERY OF THE BONES, JOINTS, MUSC. TENDONS	LES,
Puerperium and Its Complications		Conditions of the Bones, Joints, Muscles, Tendons,	Etc
Kuestner II Increasing the Secretion of Milk with Anti Thyroid Protective Substances	233	PACLIANI, 1 The Behavior of Calcium in Bone	
Ducung, J, and Guillest, P Obstetrical Phlebitis		After Total Fuciusion of the Bile FRASER, I Fragilitas Ossium Tarda	222
of the Subacute Venous Septicemia Type	233	SANTI, E Osteomy chitis in the First Years of Life	241
Newborn  Doynally, H. H., and Nicholson, M. M. A. Study		GWYNE, F. J., and Robb, D. Calcareous Deposits in the Supraspinatus Tendon and the Subacrom	ŕ
of Vaccination in 500 Newborn Infants	268	LUNARDI, B A Contribution to the Discussion of	242
Miscellaneous		Exostosis Burata of the Scapula  Kistler, G. H. Sequences of Experimental Infarc	242
Povzr, C Evaluation of Chinical Statistics on the		tion of the Femur in Rabbits	243
Relations Between Parity and Pathological Ob- stetrics	234	Round Ligament of the Femur	243
		11 cannon 112 Mr. Planto Co C	
GENITO-URINARY SURGERY		WISBRUN, W The Flustic Supporting System of the Human Foot	244
GENITO-URINARY SURGERY Adrenal, Kidney, and Ureter			
	217	the Human Foot  Surgery of the Bones, Joints, Muscles, Tendons, LANGE, M. Arthrodesis of the Posterior Inferior	
Adrenal, Kidney, and Ureter  Lucarelli, G The Suprarenals in Acute Intestinal Occlusion  Rabboni, F The Behavior of the Lactic Acid of the Blood in Suprarenal Insufficiency	217 235	the Human Foot Surgery of the Bones, Joints, Muscles, Tendons,	
Adrenal, Kidney, and Ureter  Luckrell, G The Suprarenals in Acute Intestinal Occlusion  Rabboni, F The Behavior of the Lactic Acid of the		the Human Foot  Surgery of the Bones, Joints, Muscles, Tendons,  LANCE, M. Arthrodesis of the Posterior Inferior Ankle Joint—Talocalcancal Joint—in the Treat ment of Severe Malformations of the Foot, Espe	Etc
Adrenal, Kidney, and Ureter  Luckelli, G The Suprarenals in Acute Intestinal Occlusion  RABBONI, F The Behavior of the Lactic Acid of the Blood in Suprarenal Insufficiency  BEER, E, and OPPENMENSER, B S Transplantation of the Adrenal Cortex for Addison's Disease  SIMPSON, LEVY, DENTISON and KORENCHINSTY	<sup>2</sup> 35	the Human Foot  Surgery of the Bones, Joints, Muscles, Tendons, LANCE, M. Arthrodesis of the Posterior Inferior Ankle Joint—Talocalcancal Joint—in the Treat ment of Severe Malformations of the Foot, Espe civily Flat Foot and Club-Foot  Fractures and Dislocations MILKMAN, L. A. Multiple Spontaneous Idiopathic	Etc
Adrenal, Kidney, and Ureter  Luckrelli, G The Suprarenals in Acute Intestinal Occlusion  RABBONI, F The Behavior of the Lactic Acid of the Blood in Suprarenal Insufficiency  BEER, E, and Oppenheister, B S Transplantation of the Adrenal Cortex for Addison's Disease  Simpson, Levi, Dention and Korenchipushy Some Effects of Adrenalectomy in Male Rats  Redi, R Traumatic Lesions of the Kidney and	<sup>2</sup> 35 <sup>2</sup> 35 <sup>2</sup> 35	the Human Foot  Surgery of the Bones, Joints, Muscles, Tendons, Lange, M. Arthrodesis of the Posterior Inferior Ankle Joint—Talocalcancal Joint—in the Treat ment of Severe Malformations of the Foot, Espe cially Flat Foot and Club-Foot  Fractures and Dislocations Milkman, L. A. Multiple Spontaneous Idiopathic Symmetrical Fractures  Moore, J. J., and de Lorimer, A. The Calcium	Etc
Adrenal, Kidney, and Ureter  Luckrelli, G The Suprarenals in Acute Intestinal Occlusion  Rabboni, F The Behavior of the Lactic Acid of the Blood in Suprarenal Insufficiency  Beer, E, and Oppendence, B S Transplantation of the Adrenal Cortex for Addison's Disease  Simpson, Leva, Dennison and Korenchipushy Some Effects of Adrenal Cortex in Male Rats  Red, R Traumatic Lesions of the Kidney and Their Treatment  Lioy, D Clinico-Operative Considerations on Cases	235 235 235 235	the Human Foot  Surgery of the Bones, Joints, Muscles, Tendons, Lange, M. Arthrodesis of the Posterior Inferior Ankle Joint—Talocalcancal Joint—in the Treat ment of Severe Malformations of the Foot, Espe cially Flat Foot and Club-Foot  Fractures and Dislocations  Milkhan, L. A. Multiple Spontaneous Idiopathic Symmetrical Fractures  Moore, J. J., and de Loriner, A. The Calcium Stream and the Healing of Fractures  Dodd, H. Gangrene Following Fractures (Exclud	Etc
Adrenal, Kidney, and Ureter  Luckelli, G The Suprarenals in Acute Intestinal Occlusion  Rabboni, F The Behavior of the Lactic Acid of the Blood in Suprarenal Insufficiency  Beer, E, and Oppenheister, B S Transplantation of the Adrenal Cortex for Addison's Disease  Simpson, Levy, Dention and Korenchipushy Some Effects of Adrenalectomy in Male Rats  Redi, R Traumatic Lesions of the Kidney and Their Treatment	235 235 235 235 235 236	the Human Foot  Surgery of the Bones, Joints, Muscles, Tendons, Lance, M. Arthrodesis of the Posterior Inferior Ankle Joint—Talocalcancal Joint—in the Treat ment of Severe Malformations of the Foot, Espe cially Flat Foot and Club-Foot  Fractures and Dislocations  Milkman, L. A. Multiple Spontaneous Idiopathic Symmetrical Fractures  Moore, J. J., and de Lorimer, A. The Calcium Stream and the Healing of Fractures  Dodd, H. Gangrene Following Fractures (Exclud ing Gas Gangrene)	244 245
Adrenal, Kidney, and Ureter  Luckrelli, G The Suprarenals in Acute Intestinal Occlusion  Rabboni, F The Behavior of the Lactic Acid of the Blood in Suprarenal Insufficiency  Beer, E, and Oppermenter, B S Transplantation of the Adrenal Cortex for Addison's Disease  Simpson, Levi, Dentison and Korenchfushy Some Effects of Adrenalectomy in Male Rats  Redi, R Traumatic Lesions of the Kidney and Their Treatment  Lioy, D Clinico-Operative Considerations on Cases of Painful and Hæmature Nephritis  McCurdy, G A Renal Neoplasms in Childhood Geschickter, C F, and Widening, H Nephro-	235 235 235 235 236 236	the Human Foot  Surgery of the Bones, Joints, Muscles, Tendons, Lange, M. Arthrodesis of the Posterior Inferior Ankle Joint—Talocalcancal Joint—in the Treat ment of Severe Malformations of the Foot, Espe cially Flat Foot and Club-Foot  Fractures and Dislocations  Milkhan, L. A. Multiple Spontaneous Idiopathic Symmetrical Fractures  Moore, J. J., and de Lorinter, A. The Calcium Stream and the Healing of Fractures  Dodd, H. Gangrene Following Fractures (Exclud ing Gas Gangrene)  Canavero, M. An Unusual Luxation of the First Metacarpal	244 245 245
Adrenal, Kidney, and Ureter  LUCKELLI, G. The Suprarenals in Acute Intestinal Occlusion  RABBONI, F. The Behavior of the Lactic Acid of the Blood in Suprarenal Insufficiency.  BEER, E, and OPPENHEMER, B.S. Transplantation of the Adrenal Cortex for Addison's Disease  SIMPSON, LEVY, DENTISON and KORENCHIFVSFY Some Effects of Adrenalectomy in Male Rats  REDI, R. Traumatic Lesions of the Kidney and Their Treatment  LIOY, D. Clinico-Operative Considerations on Cases of Painful and Hæmaturic Nephritis  MCCURDY, G.A. Renal Neoplasms in Childhood  GESCHICKTER, C. F., and WIDENHORN, H. Nephrogenic Tumors  Busbee, H. G. Ureteral Occlusion Following Ra-	235 235 235 235 236 236 237	the Human Foot  Surgery of the Bones, Joints, Muscles, Tendons, Lange, M. Arthrodesis of the Posterior Inferior Ankle Joint—Talocalcancal Joint—in the Treat ment of Severe Malformations of the Foot, Espe cially Flat Foot and Club-Foot  Fractures and Dislocations  Milkman, L. A. Multiple Spontaneous Idiopathic Symmetrical Fractures  Moore, J. J., and de Lorimer, A. The Calcium Stream and the Healing of Fractures  Dodd, H. Gangrene Following Fractures (Exclud ing Gas Gangrene)  Canavero, M. An Unusual Luxation of the First Metacarpal  Henry, A. K., and Bayum, M. Fracture of the Femur with Luxation of the Ipsilateral Hip	244 245 245 246
Adrenal, Kidney, and Ureter  Luckrelli, G The Suprarenals in Acute Intestinal Occlusion  Rabboni, F The Behavior of the Lactic Acid of the Blood in Suprarenal Insufficiency  Beer, E, and Oppendence, B S Transplantation of the Adrenal Cortex for Addison's Disease  Simpson, Leva, Dennison and Korenchipsfy Some Effects of Adrenal ectomy in Male Rats  Redi, R Traumatic Lesions of the Kidney and Their Treatment  Lioy, D Clinico-Operative Considerations on Cases of Painful and Hæmaturic Nephritis  McCurdy, G A Renal Neoplasms in Childhood  Geschickter, C F, and Wideniorn, H Nephrogenic Tumors  Busee, H G Ureteral Occlusion Following Radium Implantation into the Cervix	235 235 235 235 236 236	the Human Foot  Surgery of the Bones, Joints, Muscles, Tendons, Lange, M. Arthrodesis of the Posterior Inferior Ankle Joint—Talocalcancal Joint—in the Treat ment of Severe Malformations of the Foot, Espe cially Flat Foot and Club-Foot  Fractures and Dislocations  Milkman, L. A. Multiple Spontaneous Idiopathic Symmetrical Fractures  Moore, J. J., and de Lorimer, A. The Calcium Stream and the Healing of Fractures  Dodd, H. Gangrene Following Fractures (Exclud ing Gas Gangrene)  Canavero, M. An Unusual Luxation of the First Aletacarpal  Henry, A. K., and Bayum, M. Fracture of the	244 245 245 246 246
Adrenal, Kidney, and Ureter  Luckrelli, G The Suprarenals in Acute Intestinal Occlusion  Rabboni, I The Behavior of the Lactic Acid of the Blood in Suprarenal Insufficiency  Beer, E, and Oppenheister, B S Transplantation of the Adrenal Cortex for Addison's Disease  Simpson, Levi, Dention and Korenchfushy Some Effects of Adrenalectomy in Male Rats  Redi, R Traumatic Lesions of the Kidney and Their Treatment  Lioy, D Clinico-Operative Considerations on Cases of Painful and Hematuric Nephritis  McCurdy, G A Renal Neoplasms in Childhood Geschierter, C F, and Widening, H Nephrogenic Tumors  Busee, H G Ureteral Occlusion Following Radium Implantation into the Cervix  Bladder, Urethra, and Penis	235 235 235 235 236 236 237	the Human Foot  Surgery of the Bones, Joints, Muscles, Tendons, Lange, M. Arthrodesis of the Posterior Inferior Ankle Joint—Talocalcaneal Joint—in the Treat ment of Severe Malformations of the Foot, Espe cially Flat Foot and Club-Foot  Fractures and Dislocations  Milkman, L. A. Multiple Spontaneous Idiopathic Symmetrical Fractures  Moore, J. J., and de Lorimer, A. The Calcium Stream and the Healing of Fractures  Dodd, H. Gangrene Following Fractures (Exclud ing Gas Gangrene)  Canavero, M. An Unusual Luxation of the First Metacarpal  Henry, A. K., and Bayum, M. Fracture of the Femur with Luxation of the Ipsilateral Hip  Daerach, W., and Strisson, B. B. Displacements in Fractures of the Neck of the Femur	244 245 245 246 246 246 247
Adrenal, Kidney, and Ureter  Luckrelli, G The Suprarenals in Acute Intestinal Occlusion  Rabboni, F The Behavior of the Lactic Acid of the Blood in Suprarenal Insufficiency  Beer, E, and Oppendence, B S Transplantation of the Adrenal Cortex for Addison's Disease  Simpson, Leva, Dennison and Korenchipsfy Some Effects of Adrenal ectomy in Male Rats  Redi, R Traumatic Lesions of the Kidney and Their Treatment  Lioy, D Clinico-Operative Considerations on Cases of Painful and Hæmaturic Nephritis  McCurdy, G A Renal Neoplasms in Childhood  Geschickter, C F, and Wideniorn, H Nephrogenic Tumors  Busee, H G Ureteral Occlusion Following Radium Implantation into the Cervix	235 235 235 235 236 236 237	the Human Foot  Surgery of the Bones, Joints, Muscles, Tendons, Lange, M. Arthrodesis of the Posterior Inferior Ankle Joint—Talocalcancal Joint—in the Treat ment of Severe Malformations of the Foot, Espe cially Flat Foot and Club-Foot  Fractures and Dislocations  Milkman, L. A. Multiple Spontaneous Idiopathic Symmetrical Fractures  Moore, J. J., and de Lorimer, A. The Calcium Stream and the Healing of Fractures  Dodd, H. Gangrene Following Fractures (Exclud ing Gas Gangrene)  Canavero, M. An Unusual Luxation of the First Metacarpal  Henry, A. L., and Bayumi, M. Fracture of the Femur with Luxation of the Ipsilateral Hip  Daerach, W., and Stimson, B. B. Displacements in Fractures of the Neck of the Femur  SURGERY OF BLOOD AND LYMPH SYSTEM	244 245 245 246 246 246 247
Adrenal, Kidney, and Ureter  Luckrelli, G The Suprarenals in Acute Intestinal Occlusion  Rabboni, F The Behavior of the Lactic Acid of the Blood in Suprarenal Insufficiency  Beer, E, and Oppermenter, B S Transplantation of the Adrenal Cortex for Addison's Disease  Simpson, Levi, Dention and Korenchipsey Some Effects of Adrenalectomy in Male Rats  Redi, R Traumatic Lesions of the Kidney and Their Treatment  Lioy, D Clinico-Operative Considerations on Cases of Painful and Hamature Nephritis  McCurdy, G A Renal Neoplasms in Childhood  Geschickter, C F, and Widening, H Nephrogenic Tumors  Busbee, H G Ureteral Occlusion Following Radium Implantation into the Cervix  Bladder, Urethra, and Penis  Riba, L W, and Christensen, F A Urinary Bilharziasis  Kretschmer, H. L Diverticulum of the Bladder	235 235 235 235 236 236 237 237	the Human Foot  Surgery of the Bones, Joints, Muscles, Tendons, Lange, M. Arthrodesis of the Posterior Inferior Ankle Joint—Talocalcancal Joint—in the Treat ment of Severe Malformations of the Foot, Espe cially Flat Foot and Club-Foot  Fractures and Dislocations  Milkman, L. A. Multiple Spontaneous Idiopathic Symmetrical Fractures  Moore, J. J., and de Lorimer, A. The Calcium Stream and the Healing of Fractures  Dodd, H. Gangrene Following Fractures (Exclud ing Gas Gangrene)  Canavero, M. An Unusual Luxation of the First Metacarpal  Henry, A. K., and Bayumi, M. Fracture of the Femur with Luxation of the Ipsilateral Hip  Daerach, W., and Stimson, B. B. Displacements in Fractures of the Neck of the Femur  SURGERY OF BLOOD AND LYMPH SYSTEM  Blood Vessels	244 245 245 246 246 246 247
Adrenal, Kidney, and Ureter  Luckrell, G The Suprarenals in Acute Intestinal Occlusion  Rabboni, F The Behavior of the Lactic Acid of the Blood in Suprarenal Insufficiency  Beer, E, and Oppendente, BS Trunsplantation of the Adrenal Cortex for Addison's Disease  Simpson, Levy, Dention and Korenchinshy Some Effects of Adrenalectomy in Male Rats  Red, R Traumatic Lesions of the Kidney and Their Treatment  Lioy, D Clinico-Operative Considerations on Cases of Painful and Hæmaturic Nephritis  McCurdy, GA Renal Neoplasms in Childhood  Geschickter, CF, and Widenhorn, H Nephrogenic Tumors  Busee, HG Ureteral Occlusion Following Radium Implantation into the Cervix  Bladder, Urethra, and Penis  Riba, LW, and Christensen, FA Urinary Bilharziasis	235 235 235 235 236 236 237 237	the Human Foot  Surgery of the Bones, Joints, Muscles, Tendons, Lange, M. Arthrodesis of the Posterior Inferior Ankle Joint—Talocalcancal Joint—in the Treat ment of Severe Malformations of the Foot, Espe cially Flat Foot and Club-Foot  Fractures and Dislocations  Milkman, L. A. Multiple Spontaneous Idiopathic Symmetrical Fractures  Moore, J. J., and de Lorimer, A. The Calcium Stream and the Healing of Fractures  Dodd, H. Gangrene Following Fractures (Exclud ing Gas Gangrene)  Canavero, M. An Unusual Luxation of the First Metacarpal  Henry, A. L., and Bayumi, M. Fracture of the Femur with Luxation of the Ipsilateral Hip  Darrach, W., and Stimson, B. B. Displacements in Fractures of the Neck of the Femur  Surgery of blood and Lymph System  Blood Vessels  Cotte, G., and Mathieu, J. Cases of Spontaneous Phlebius Occurring During the Course of Devel	244 245 245 246 246 246

848

245

21,1

57

13

u

56

rşő

257

257

J. J. Germanner, B. H. On the Early Development of the Vascular System. The Development of Blood and Blood Vessels in the Chorles of Man CORRER, F A and Manuscer, W G., The Function of Perioberal Vasoconstriction

FARM, H. H. The Treatment of Varicoulties Preistokeny High Ligation of the Internal Septem-ons Venowith the Laperton of Sciences Solutions

Surrewicz, R. H., PERTHAN, N. E. and Warre, J. C., The Effect of Epinephen on the Sympathectorseed Homen Extremety As Additronal Came of Fasters of Operations for Rayвания Риман

#### Richard Tressachusion

RANSON, F The Behavior of the Lactic Acad of the Blood in Suprairied Insufficiency

Japoneur B., and Sanaucour G. The Treatme of Wethor's Danses with "Scropingentos Sarans of the Umbelical Cord." Green, The Treatment of Hemophills with O T

#### Lymph Glands and Lymphetic Vessels

ZOKOTOKKIK, A. A. Rosnigsmological Mathod of Examination of the Lymphatic System in Man

and Aranak Experience, E. B. In Typeral Bodytha's Discuss and Infection or Keophenn?

CRAVER, L. F. Phys. Year Survival in Hodging Distant Impletted in Lymphoustone, Hodgita's Description in Lys

#### SURGICAL TROUBLOUR

Operative Surgery and Technique; Postsperative Tractment.

Mayre, G. Scalmar and Its Treatment by Treas plantatate

Ministry, W. Fostoparative States of Excitoment Antimotic Surgery: Truckwest of Wounds and Infections

Dr. Demandowski, S. Trueineset of Wounds by the Local Application of Whole Oil REPERTO, E. Experimental Researches on the Action

of the Ultravalet Rays is the Heating by Pro-mery or Secondary Usasa of Wounds of the Sim, Muscles, and Parenchymetress Organ-Liver and Spirers

SCHAPTER, C. POSTITUMENTO COMPORTIONS Ferenceses. D. Treatment of Proptose Suspent

Descesses with Artificial Gestric John Rivers C. The Signafrance of Sections in Surg-

PLORES, H W HARDESO, H E and FIREM, P. The Treatment of Tetrans

BATT, L. Agti-Tetanes Vacchiation SCHARR, H. The Prophylenis of Tetamos and Street

Re-France

Berretto, A.; Seren Shock and Seren Serense Fellowing Tetanas Vaccanation and Its Treat

#### Azarthania

ctal 11

CRAMPTON, H. P.: Factors Other Then Association Affecting Assessments

Szer, L. P.: The Technique of Intratractical Asser-Diese. BARROW D. W., PERE, D. L., and Honorma, A. C.: Avertin in Pyr-Amenthetic Medicalma, A Survey

#### of Ast Surposi Assethence

Surgical Instruments and Appendix Connects, W 4 A New Physiological Suture Mate-

#### PHYSICOCHEMICAL METHODS IN SURGERY

Rountgearing Course, G. M., Engerse, M. S. and Mirror, D. Rountgen Changes in the Potroca Portion of the Tresporal Bone Without Clouds Measure-

DOM T vices, H K., and Naturation, L., A Romigens-logical Study of Tabertalous of the Laryer

and Nack Leng Al., Courtier, C. G. and Street A. P.: Rock on Therapy of Egythelione of the Pharper and

AIYRE WALKER, A E Encephalography to Children DATE ACOUA, V and VALENCOIL R. The Resent

200

-

111

197

rés.

Appearance of the Vormal Marries of the Color Entorcums, A. A Rossigmological Method of Examination of the Lymphatic System in Man

Lincorna, T. Irradutzon in Lymphomerous. Bodykur's Dusses, and Lockerma (\* Stanistica American)

Corray, M. The Problem of Redmessarrity Branctorro, U. Romigan Therapy of Gynecolog-

les! Infloremetross Despatemen, A. U. A Cleanification of Tennes from

the Standpoint of Redocustiveness McLerous, H. C. Change in the Lange and Please Fellowing Rombers Treatment of Cancer of the Breast by the Prelonged Fractional Method

and America

Bowner, H H and Fencier, R E Prepary Ractal Carcleons under Reduties Treatment

Statutural Review of two Cases Tamento, F J. Blue Lymphadenectamy with Irra duation in the Treatment of Cancer of the Cervix 157

Bounes, H. G. Urencal Occlusion Following Rada 157 are Implementation into the Cervan

Figure, F B. Viction, J. Statistics, N. and Mic-Donald D. The Action of Radius on These

McCor H. A. Nacrous Fallewing Radium Treat 58 ment A Presentary Report

REFERTO, E. Experimental Researches on the Action of the Ultraviolet Rays in the Healing by Primary or Secondary Union of Wounds of the Skin, Muscles, and Parenchymatous Organs—Liver and Spicen	256	of Vaccination in 500 Newborn Infants  Prantiff, G. L., and Vastine, J. H. The Treatment of Epithehoma of the Skin  Bucalossi, P. A. Histological and Critical Study of Myxomata and Myxomatoid Tumors	268 268 260
MISCELLANEOUS  Chimical Entities—General Physiological Condition		LUMSDEN, T., MACRAE, T. F., and SEIPPTE, E. The Direct Demonstration of Anti Cancer Bodies in the Serum of Animals Immune to a Homologous Tumor	260
SYMMERS, D Status Lymphaticus CRITCHLEY, M Some Aspects of Pain BLALOCF, A Shock Further Studies with Particular Reference to the Effects of Humorrhage DEVE, F Intermediate and Transitional Pathological Forms Between Hydrid Echinococcus and Alveolar Echinococcus (Bavaro Tyrolienne)	266 266 267	GANDOLFO, A Roffo's Test in Cancer Statistical Results of 11,000 Cases ENDERLEN Indications for Early Operations GONAMES, J Air and Fat Emboli and Their Surgical Importance	270 270 271
in Man  WALIGREN, A The Value of Calmette Vaccination is the Personation of Tabasenless on Childhood	267	Surgical Pathology and Diagnosis GARRIFLLI, S. The Takata Ara Reaction in Surgical	

#### BIBLIOGRAPHY

В	31BI	J	OGRAPHY	
Head End Neck	:			
Eye .		_	73 Adress Filam In Surgery	
La			73 Adress, Kidney and Ureter	
Note and Sixuses Mouth			73 Blackler Uretters, and Presis 74 Octabal Octabas	
Pharyex			74 Octabal Organs 74 Miscolaneous	- 3
Nert		27	A ALBORISANOUS	
******		27		- 3
_		47	S Berrows at a -	
Surgery of the Nervous System			S Burgery of the Bence, Joints, Muscles, Tu Conditions of the Bonce, Leises and	
Brain and Its Coverings; Cranial Nerves			Conditions of the Bones, Joints, Muscles, Tu- Etc.  Sorrey of the P.	-
Spinal Cord and Its Coverings; Cranial Nerves Spinal Cord and Its Coverings		270	Screen, Line	ю,
Pertpheral Narves		-70	Fractions and Street, Johnts, Marches T.	:44
Sympathetic Nerves		77	Orthopedica in General	
		77		***
Cheer Wall Burgery of the Cheer				***
			Surgery of the Blood and Lymph System Riccel Vencia	
		77	Ricod Venezia	
Heart and Pencardon				
Ciscolingus and Mediantusus Macclingus		77	Lympa Charle and I	No.
WASHINGTON TO SHARE THE PARTY OF THE PARTY O		7.8	Lympa Clauds and Lymphatic Veneta	242 244
_	47			
Abdominat to a			Occupied Technique	
			Operative Surgery and Technique; Postoperative	
Gastro-Interestal Tract	#7		Anthony	
Liver Gall Blackler Pancreus, and Spicen	87	ė	Anthopic Supery; Treatment of Wounds and	<b>#33</b>
www.compcostd	980	•	Assections and	
	65		Sergical Instruments and Apparatus	AU3 AO4
Uteres Gynacology			Apparates	201
			TM	-71
Adsertal and Perfecturate Conditions External Ocuration	8.5		Physicochemical Methods in Surgery Roenterminus	
Mucellancous	85x	- 4	Romigenology Radiana	
- Control of the cont	r£)	- 1	k(same n.	94
	<b>24</b> 5	•		<b>**</b> 5
Obstetrice				PHI
Pregnancy and Its Complications Labor and Its Complications			Miscallenness	
Labor and Its Complications	884	c		
Postportune and Its Complications	65g	G	eneral Bacternal Physiological Conductors of	41
Historian com	186			
	100			p6
		34	repeal Patiology and Dargacele	y6
			No. of the last of	*

## INTERNATIONAL ABSTRACT OF SURGERY

MARCH, 1935

# ABSTRACTS OF CURRENT LITERATURE

## SURGERY OF THE HEAD AND NECK 10 Neurological and ophthalmological examina-

#### HEAD

Fractures of the Connors, J F, and Wright, L T Skull Ann Surg, 1934, 100 996

The authors report their experience in the treatment of 1,760 cases of cranial and intracranial injuries They divide the cases into 3 groups The first group, consisting of 497 cases, was treated in the period, with a mortality of 52 I per cent The second group, consisting of 336 cases, was treated in the period from 1925 to 1927, a period of consisting treatment beth a mortalist of the period from 1925 to 1927, a period of consisting treatment beth a mortalist of the period of the period from 1925 to 1927, a period of consisting treatment beth a mortalist of the period of the per servative treatment, with a mortality of 45 per cent The third group, consisting of 927 cases, was treated conservatively in the period from 1930 to 1934, with a mortality of 27 7 per cent. The authors

routine diagnostic procedure includes r Careful ehutation of the history if this is

possible

2 X-ray examination at the time the patient is admitted to the hospital unless he is in shock.

3 In the cases of all unconscious or seriously injured patients, an immediate examination by a member of the visiting staff, day or night

4 An immediate lumbar puncture and a cell

5 A lumbar puncture and cell count of the spinal count of the spinal fluid fluid from eight to twenty four hours after the initial

Study of the patient for the development of

7 Determination of the pressure of the cerepresumptive signs and symptoms brospinal fluid (The authors state that while they do not consider this of much diagnostic importance, primary hypotension of the cerebrospinal fluid makes the prognosis grave in cases of proved injury) 8 A white blood cell count, urinalysis, and Was-

sermann tests of the blood and spinal fluid and, in the cases of unconscious patients, a complete chemical study of the blood with particular attention to 9 A careful examination for associated injuries the blood sugar

The authors advocate the usual methods of conservative treatment, emphasizing the importance of (r) giving the brain a chance to stabilize itself tions before more hamorrhage is produced, (2) maintaining the fluid balance, (3) maintaining nourishment and preventing starvation acidosis, and (4) preventing pneumonia and meningitis

They conclude that the treatment of intracranial pressure in cases of acute cramocerebral trauma by subtemporal decompression operations, intravenous injections of hypertonic glucose solutions, and lumbar drainage earlier than six or seven days after the injury is unwise and should be abandoned. They beheve that in an occasional case of high intracramal pressure the delayed intravenous administration of hypertonic solutions of glucose with delayed lumbar dramage may be beneficial when the active bleeding has stopped and is not likely to recur as a result of the reduction of the intracramal pressure ROBERT ZOLLINGER, M.D.

Dill, J. L., and Crowe, S. J. Thrombosis of the Sigmoid or Lateral Sinus A Report of Thirty Arch Surg , 1934, 29 705

During the past twenty years only 30 cases of ottlic sinus thrombosis have been treated at the Johns Hopkins Hospital although an average of 15,000 patients with diseases of the nose, throat, and ear are seen each year in the out-patient department. An analysis of the symptoms and end-results in this group shows clearly that each patient must be studied individually and that no dogmatic rules for either diagnosis or treatment are Justifiable

Of the 30 patients, 16 were children under fourteen years of age. One patient was one year and another sixty-four years old The syndrome of chills, a septic temperature, and a positive blood culture are often absent It was present in only 6 (20 per cent) of the cases reviewed As a rule the blood count is higher in children than in adults. In I of the reviewed cases white-cell count of 5,500 was associated with a temperature of 106 degrees F in another count of \$,700 with a temperature of oad degrees F a positive blood culture, and meningith and in a third, that of a nomen forty-six years of age who recovered, a count of 0,500 with a temperature of 104 degrees F and so colonies of bemolytic streptococci in the blood culture. The harmolytic streptococcus, the organism most com-monly present in the blood in cases of ctitic thrombooks, was found in 50 per cent of the series A culture from the martoid or middle car may give no indication of the organism in the blood stream hecause the staphylococcus or other organisms frequently present in this location overgrow and prevent recognition of the hemolytic streptococcus. In uncomplicated cases the general direction of the temperature curve following operation is toward normal. The most common causes of a continued septic temperature are secondary aboves and pneumonia In 4 of the cases reviewed transfusions were given. The authors believe that they are of decided value providing precautions are taken to prevent severs systemic reactions.

There were to deaths in the 50 cases reviewed, a mortality of 33 per cent. Of the so patients who recovered, 5 had pain, redness, and swelling around one or more of the lofuts: a had an isolated abacess of the models of the muches of the legs and had premonis

In the John Hopkins Josephal the suppeal trees ment of smot thrombous runses with the service of the chilectal symptoms. A simple mustablecturery of the chilectal symptoms. A simple mustablecturery approached in Ul cases, but a noticed operation on the matshed is done only if the hearing as markedly imported by extreasive supposes food the middle saw or cholestectures. If there is clinical evotence of separation of the lateral signoided issue is exposed for chirect an approach of the lateral signoided issue is exposed for chirecture of the control of the lateral signoided issue is exposed for chirectures of the control of the signoided of the control of the lateral signoided issue is exposed for chirecture of the chirecture of the chirecture of the chilecture of the chirecture of the chirecture of the chilecture of the chirecture of the chirecture of the chirecture of the chirecture of the disease through as méterde field.

Erohn, G. The Treatment of Fractures of the Nork of the Mandilele, Especially in Children, and the Resolm Obtained in a Few Cases (De Behandung von Fracture cells mantibules beauchers

hei Kindern und die Resultate von sungen Feellen). Deutsche Zehraerzit erw Hoht 934, 16 Fractions of the jaw especially isolated fractures of the neck of the jaw are rure in children. There-

of the neck of the few are rurs in children. Therefore the hierature contains few reports on methods of treating them set the results of such frectures. The thor discusses the causes, diagnosis, and thereury on the buils of lour cases.

therapy on the basis of four cases. He states that fracture of the neck of the mandable is usually caused by an indirect force and many be associated with other fractures of the lower or upper jaw. In bilateral fractures there is a typical and nearly symmetrical backward and upward dislocation and the chin portion is drawn done so that there is offirm a space of % cm. between the rost of teeth. Unliketed fracture of the next is rosts panied by a dislocation of the fragment toward the involved side and a displacement beckmard, out ward, and upward. A roemigen examination should always be made

If the condylold process is only dislocated, direct reduction is not emential. It is necessary only to replace the large fragment to correct relation to the upper jaw The small fragment will assally return to its normal site. As a mie it is possible to obtain good healing with good joint function, good opining of the mouth, and good articulation. The immeh lization of the lower jaw need never be complete For temporary fixation to the upper jaw the author trees intermanillary elastic bands which permit has ited but sufficient opening of the mouth. The movements of the jaws in speech, in the taking of nonishment (finide) and in the personery cleansing of the month prevent articular disturbances and mucle attorby and to a certain extent preserve the antaral function of the lower law. Kroka disapproves of the American method of complete immobilization. He states that in the cases of small cividres extinution of the condyfold process is contra indicated because It has severe, irremembable sequele. Is cases of subluxation fracture in adults, extirnation may have relatively good results

The property of the control of the c

The preparation and application of the different splants in combination with a plaster cast is abown by numerous illustrations Garriack

Rischenbach, Z. Fractore Dislocations of the Hand of the Manddille (De Verreikraphrische des Unterkefergelenkapia) Deutsche Zubeerst um Stell 934, 37

By the term dealcoatton fracture is usually meant. Instruct in which the part of the fracture force including the joint end has fost (its corral position competity or tecompeterly (subharation instrum). The nutber discusses dislocation fractures of the head of the mandable near or restrict, that the joint. The increase in the frequency of each fractures alone the War has been due to the increase in sport and transportation accidents and to the fact that such fractures are now recognized more ract that such fractures are now recognized more often because of more frequent X-ray examination In 1933, 24 per cent of the fractures of the law

seen in the author's clinic were articular fractures and 25 per cent of the latter were dislocation fractures In discussing the manner in which such fractures tures are produced, Reichenbach cites especially Wassmund's report on fractures and dislocations of the facial portion of the shull, published in 1927, but refers also to articles by Perthes, Borchers, Schlampp, and others He states that it is difficult to explain why the head of the bone sometimes fractures in one way and sometimes in another The direction of the line of fracture is not constant Also in the discussion of this problem Reichenbach cites the authorities of this problem Reichenbach cites the authorities of the second se sion of this problem Reichenbach cites the authorities mentioned. He says, "The syndrome of dislottes mentioned he says," the disconfined he the cotton fractures of the joint head is produced he the cotton fractures of the joint head is produced he the cation fractures of the joint head is produced by the recognized factors in all bone fractures. As one or recognized factors in an oone fractures another symptom may be lacking, a positive diagnosis

can be made only by roentgen examination In the treatment, operative reduction or extirpation of the avulsed head has been done most frequently Rundi, in an article on the clinical picture quenus Runon, in an article on the cumular picture of articular fractures of the lower law published in or articular fractures of the lower law published in 1928, was the first to call attention to the fact that 1920, was the most to can attention to the fact that non-operative treatment may be successful in dislocation fractures of the head of the law He carried out such treatment with functional splints combined

with a unilateral or bilateral movable splint or a Independently of Rundi, Reichenbach has been trying non operative treatment in cases of dislocarubber chewing prosthesis trying non operative treatment in cases of distordance than fractures of the head of the law for several years In all of his cases (twelve) the basic treat ment was the same The dislocated small fragment. was left entirely alone, attention being directed only to the large fracture fragment Intermaxillary elasto the large fracture fragment intermagniary classification to bands were introduced between splints in the upper and lower Jaw to obtain semi-immobilization The twelve cases are reported in detail. In all of the cases subsequent examinations demonstrated that the opening and closing movement was unhindered. In no case were there disturbances of articulation Mastication was subjectively as good as before the injury Anatomically, except in one case with normal bashon, the distance of the case with normal bashon of the case with t mal healing, the dislocation persisted Nevertheless bony healing occurred Roentgen examination disclosed marked deformities of the joint and especially of the joint head Neither roentgenologically nor of the joint head refined to observe evidencelly, however, was it possible to observe evidences of orthogonal accounts. dences of arthritis deformans The author believes dences of artificial denormans of surgical treatment, orthopedic treatment is to be preferred to operation, and that operation should be considered only for old and that operation should be considered only for old fractures in which attempts at reduction of the large fragment by strong apparatus has been unsuccess ful For such fractures he recommends one of the surgical procedures suggested by Perthes—osteotomy at the site of fracture, resection of the head of the Jaw, or osteotomy above the angle of the Jaw

Schoenberg, M. J. Retinal Detachments Clinical noenberg, M. J. Kennai Detachments Onnical Experiences with the Diathermic Treatment

Of twenty-three cases of retinal detachment treated by diathermy, the treatment was successful treated by diathermy, the treatment was successful in fourteen and failed in nine. The author analyzes the failures

He states that in several of the cases of failure the prognosis was poor because of long duratuon of the detachment with consequent degeneration of the retina and vitreous In two cases of aphabia the periphery of the fundus could not be properly examined, and in others there was lack of cooperation after the operation In one case in which the result was unsuccessful the patient vomited the night after the operation However, early postoperative vomitation of the operation of ing occurred also in several of the cases in which a cure was obtained In addition to poor selection of the cases for diatherm), errors in technique, and lack of postoperative cooperation there are other less of poscoperative cooperation there are other less obvious reasons for failures. The choroid may be so ouvious reasons for ranging the chorone may be so atrophic that it will not react to coagulation or to any other means of producing an inflammatory reacany other means of producing an innammator, reaction A degenerated and folded retina may not be capable of returning to the normal position, or the return of the return to its normal position may be prevented by adherence to the vitreous In some prevented by admerance to the virtebus in secondable cases the subretinal fluid may not be resorbable The cases discussed are reported in detail. conclusion the author says that as most of the

successful results were obtained in the last cases treated, it is obvious that experience making for a

better technique is of importance

Coates, G. M., Ersner, M. S., and Myers, D. Roentres, G M, Ersner, M S, and Myers, D Koentegen Changes in the Petrous Portion of the Temporal Bone Without Clinical Manifestation tions Arch Ololary ngol , 1934, 20 615

Following a review of the literature relative to ronowing a review of the netrous portion of involvement of the apex of the petrous portion of the temporal bone, the authors state that Gradethe temporar pone, the authors state that Graden nigo's syndrome may be independent of petrositis, petrositis may produce Gradenigo's syndrome, and petrositis may exist without symptoms

Gradenigo's syndrome has been attributed to venous congestion of the temporal bone resulting

In many instances the roentgenologist is unable from venous circulatory disturbances to distinguish between petrositis, evidative petrosus, and congestion of the petrous portion of the temporal bone due to venous anomalies of the skull According to Wittmaack, Profant, Driuss, Kopetzky, and others, true petrositis can occur only in

In a diploic temporal bone, the lesion is usually a pneumatized temporal bone

osteomyelitic rather than coalescent Petrositis as revealed by roentgenography

not necessarily indicate surgical intervention

The Kopetsky Almour operation and other operations on the petitous portion of the temporal bone do not always come up for consideration, as many patients recover after simple manufacturers and

myringo reco

Key films are essential for: (1) determination of the type of temporal bone, whether it is pacematic, sciencise, or diplote, (1) determination of the size of the lateral stone and jugular foramina and (3) ment genographic visualization of the temporal bone for a permanent record.

The authors report nine cases thowing definite contagonary fine wifetine of invariances in of the ages of the persons portion of the temporal bone. Recovery occurred in all Ose patient recovered following a Kopetaky Almoor operation and another aiter several myrangotomis. The authors tate that fredgment and care are necessary in deficiting on the treatment in firem case. Raiding on the treatment in firem case. Raiding or the treatment is firem case. Raiding or the treatment is fired case and definite indications.

#### HOSE AND STRUSTS

Spielberg, W. The Pathology of Chronic Simusitie in Children. Lary 2000pt 934, 44 885

The author states that or rileoscopic exmination is he not stall difficult to determine the prodousingt ing lesion from the gross appearance of the massing these. It tends toward entire hypertrophy of trophy The smoons of the nose and turbinates refects the conficient of the since uncoses. In both and and chrome sinceits the rest may be septem power disposance in the second conficulties. Assertions and allerge rileids may that be has covere seen as allerge rileids mays that he has covere seen as allerge rithrifts with troody of the near moreous membrane.

JAMES C BELLETTIL, M D

#### PHARTNE

Hoover W.B. The Trantment of the Linguis Youall and Lateral Pharyogus Bands of Lympheid Thoma. Surg Clus Heris &m. 934, 54 57

The anthor states that the hogeal lymphod tasces and lateral placeymal masses of lymphod tasces are frequently the acts of recurrent followlar infection and may constitute foci of infection. They often came local symptoms requiring treatment for relief, but are very frequently overhooked.

When they are the ates of recurrent follocular infection or may be foot of infection they should be removed. The author describes a practical method for their removal.

JANES C BRANNILL, M D

#### NECK

Kenn-Apsjalahti, L. Studies on Mysodems in Children (Studies wher Mysodem bet Kinders) Ada Sac med Ferricas Dunkers 934, 9 Fest

The author reviews eighty-seven cases of infantile myxordema, most of which he collected from the

records of the hospitals and other institutions is Finland. Two thirds of the subjects were sirk. The condition occurs throughout the country but is less frequent in the castern portion. In seventy-five of the cases reviewed it was congrultal Familial bereditary conditions included tuberenloss in ar net cent of the cases, hypothyroidium in 3 per cent, beart disease in 9 8 per cent, and goiter in 8 per cent. Many of the mothers gave a history of this births, kidney disease, hemorrhage, and perviouses In only five instances were two children of the same family afflicted. The average weight of the myzerde matous children at birth was 4 of kgm as compered ith an verage weight of 3 too kgm, for all Frankle children. The weight at birth of the myscedemators children usually exceeded that of the other children in the intuity. The prognous was poorer in the cases of the children who weighed most at birth. Thymid deficiency may therefore came intra-stering meta-

both distorbances. The surrenders definitely with myscodens, give soot quickly during the first months of the less rear. Their growth then almost down at each fitted and such years. The mortality was light during the first two years (at least 1 per cast). Dust assally resulted from pocuments. Ascrude as slevys present, and the secretary soft moter for toost of the stomach were distributed. Thyred toost of the stomach were distributed. Thyred implantations may done in four cases, but had only

In the cases of eleven infants referenced studys were made of alls specimens removed for buput before and after thyroid treatment. The development of the skin was retarded, and there was pronounced atrocky with almost complete desposer ance of the sehecroes glands. Only traces of the hatt roots were lound, and the sweat stands were tand and varnolated. There was little or no fet about the sweat slands. The blood vessels are small and few The cocion showed compact, thickened man of throw trace The spideran as uniformly thinned, and the papalla were absent. The subcutaneous fut was trophic or underdeveloped After thyrold trestment for only three reks new scheceous guade and hair follicles appeared and there as general growth of the cells ith development of the exect stands, blood vessels, nd fatty timer. The commit-became marrower and less compact. The effects of thyrord therapy ere not equally favorable in all LEG M TOTALDRICK M.D. C\$386

Parkinson, J., and Hoyle, G. Thyrotoxic Hypertension. Levid 934, 27 9 3-

Data from no case of hypertension as presented in cables. It is assumed that symptoms desired from increased nervounness, indicat hyperthyrolibum. No studies of the band natisticism exported. Schlotest thyroldectomy was done in its case, but its effect on the blood pressure cannot be judged as yet. Is the discussion there are investment references: the literature. P or Stras, MO

Thyroid Surgery as Affected by the Generalized Use of Iodized Salt in an Endemic Golter Region, Preventive Surgery Ann Surg, McClure, R. D

Iodized salt was first introduced to the public as a prophylactic measure against endemic gotter in Michigan in 1925 A progressive diminution in the incidence of gotter in children then began and has continued In 1924, 35 per cent of Detroit children examined had gotter, whereas in 1932 the percentage was only 14 In 1927 there was a slight increase in the number of thy roidectomies performed in 7 Detroit hospitals, but since then a progressive decrease has nospitals, but since then a profits of decrease mas occurred each year In 1933, 591 thyroidectomies were occurred each year 111 1933, 591 th yronder tollines were performed as compared with 1,294 in 1926. In 1925, performed as compared with 1,294 in 1920 In 1925, 1926, and 1927 the Detroit Board of Health reported a great increase in deaths due to goiter, but since a great microase in ucacus due to goner, our since 1930 the number of deaths from this cause has been 1930 the number of deaths from 1916 to 1924.

The feature of the control of the feature of the control of the feature of the control of the c The findings of the author's investigation and his conclusions are summarized as follows

I Iodized salt as used in Michigan at first apparently increased the number of thyroid operations The increase was in cases of nodular goiter or

adenomata The iodized salt may have activated a group of quiescent adenomata, producing toxic

The increase reached its peak in the second gotter symptoms

year after the introduction of jodized salt

An increase in the death rate from goiter as shown by the Board of Health Statistics reached its peak in the second year after the introduction of There was no increase in hyperthyroidism

except in cases of nodular goiter or adenomata The number of operations for toxic diffuse and iodized salt

toxic nodular goiter has rapidly and steadily de creased since the apex of the second year increase 7 The madence of endemic goster or enlarged

thyroid has been reduced to almost nil since iodized

8 No cases showing the slightest ill effects from salt has been widely used

Toxic nodular gotter and toxic diffuse goiter the use of iodized salt are now seen

are less apt to occur when there has been no previous enlargement of the thyroid (endemic goiter)

Mixter, C G, Blumgart, H L and Berlin, D D Total Ablation of the Thyroid for Angina Pectoris and Congestive Heart Failure Ann Surg,

The authors report the results obtained in twentyfive cases of angina pectoris and fifty of congestive heart failure in which total thyroidectomy was done for relief of the symptoms As experience in this treatment increased, the mortality decreased and the incidence of good results increased rapidly factors chiefly responsible for the decrease in the operative mortality were the substitution of local for general anesthesia, the reduction in the amount of pre operative and postoperative sedation, and

more careful selection of cases for the operation The increased incidence of favorable results in the later cases was due almost entirely to the last factor In the cases of angina pectons there was no operations

In the cases of angina pectoris there was no operative mortality. Thirty-five per cent of the patients were completely relieved, 50 per cent were moderately benefited, and only 15 per cent showed no improvement. Those showing no improvement were operated upon early in the course of the work and would not now be considered suitable for this type

In the cases of congestive heart failure there was of therap)

an operative mortality of 12 per cent. Fifty-five per an operative mortancy of 12 per cent of the patients who were formerly incapacitated and confined to bed a great part of the time are now working or able to work, 13 per cent show definite improvement, and 7 per cent show no improvement. Thirteen per cent who were moderately benefited for from four to ten months after the operation subfor from four to ten months after the operation subsequently died of cardiac disease. The mortality Sequency died of cardiac disease. The mortally of 12 per cent occurred in the first twenty eight As in the cases of angina pectoris, the unsatisfactory late results occurred in the patients who

were operated upon in the early phase of the work The authors state that a permanent beneficial effect from the operation is not to be expected until

the basal metabolic rate has fallen 20 per cent or A pre operative basal rate of -20 or below is a definite contra-indication to the operation This was demonstrated by the fact that all patients, required postoperative thyroid feeding to control myxedema when the basal rate reached approximatel) -30 In cases in which the pre-operative basal metabolic rate is low, thyroid feeding is required when the rate decreases from 5 to 10 per cent, and this small drop is not sufficient to relieve Operation is contra-indicated also in cases of congestive heart failure in which there in cases of congestive near tanute in which there is evidence of heart disease progressing rapidly in the symptoms spite of all forms of medical therap), cases of angina pectoris which have become progressively more severe over a relatively short period of time, and cases with a history of previous coronary thrombosis ARTHUR S W TOUROFF, M D

Brenner, O., Donovan, H., and Murtagh, B. L. S. Total Thyroidectomy in the Treatment of Congestive Heart Failure Bril M J, 1934, 2 624 The authors report six cases in which complete

thyroidectomy was done during the first four months of 1934 for the amelioration of terminal heart dis ease In all of the cases the cardiac condition was improved as judged from tolerance to exercise shortly after the operation None of the patients died as a result of the thy roidectomy One died of a The venous pressure was not significantly altered The pulmonary circucerebral vascular accident. lation time was either unchanged or increased. The vital capacity was unchanged The basal metabolic Only two of the six patients showed signs of slight hypothyroidism. rate was lowered 17 per cent PAUL STARR, M D

Stone, H. B., Owings, J. C., and Gey, G. O : Transplantation of Living Grafts of Thyroid and Parathyroid Glands. Am. Surf. 914, on 513

In this article the authors report their further experience in thempts to transplant flying thyrold and parathyroid these from one asimal to another of the same species. From their earlier experience they conclude that he the site in bich a prospective graft is t be placed there should be a closely adjacent vascular supply from which new vessels may develop to support the growing graft, but that the tissue itself should not contain a rich capillary network, as does the liver and spleen, because for such a bed the development of harmatoms is apt to choke the graft. The times selected should be loose in terture and free from a dense capsule, such as that of parenchymatous organs, and from firm sheath such as that of voluntary muscles which ould cause pressure on the graft and solubit its growth. The site selected abould be easy of access to order than s difficult or hazardous operative exposure will not be necessary for the implantation and there will be no damage to may necessary or important organ. All of these requirements are tnet by the loose areola theres of the sxills and groin. Practically all of the authors' successful grafts, both in dogs and human

beings, were placed in these localities.

The arthors still also that exceedingly small grafts are most more pr to survive than large ling ments of transplanted theres because only the peripheral keye of cells in the graft can be nonzaned by the body fluth of the host before the graft becomes

vaccularized

Another factor studied was the adjustment of the praft to the chemistry of its new conforment in the not almost in their attempts to day the graft to the host the authors first grew the theoris for templasted in an artificial tesses column medium contuning the body finish of the future bost. They describe the technique of their cross-grafting experiences in the control of the co

ments as follows portion of gland is Under escutic conditions removed from Animal A. With proceutsons for rigid aserula, which are maintained throughout the several weeks and all at ges of the experiment, this portion of gland is not up tith special knives into fragments from t mm in diameter. The fragments are then implanted to culture mechan contained to a bollow ground slide or small flesk, and the culture is placed in a thermostat at body temperature. As it grows, the culture tends t liquely the medium When Equefaction occurs it must be transferred to fresh medi m. The rate of bquelectson varies with different cultures. Some parathy road tomoes require an almost daily transfer hile some thyroid towers will not require transference oftener than I intervals of three or four days After being kept in culture in this way for a period of from two ceks to month, the cult re is ready for implantation as a graft A armostat is pushed blustly late the fat and areolar tissue near the large vessels and spread so as to make a pocket to receive the graft. The various

amail cultures to be implicated any richest up to a pipetite, suspended in sail solution, and then apartic pointly into the pocket prepared for them. The cultures medium is composed of (1) cipil, parts of physiological sail solution plan derives part of beef embryo extract, and (1) there artises the recipient serum and cipit parts of fresh plans of the recipient serum and cipit parts of fresh plans of the recipient serum and cipit parts of tends plans of the recipient obtained from chilled beausiert blood. This formula makes up to a total of revirparts.

Of the last series of cierca dogs Ia which the series made homotramphous of hyroid and parthyroid glands, five showed definits unspectionable long standing takes. Histological examination of the grafts after varying periods of verts dacked very lattle evidence of an inflammatory reaction, but showed new ingrowth of blood remels from the

bost and wisinow of mitoris in the graft cell. The authors have also need the described method of grafting in time clinical cases. Grafting of thyrids and of practipated tissees was door is five cases each. In only two of these cases was the grafting one sufficiently long up to wareast conclusions regarding the results. In both of these keep-transplantation of tissee was door to covered pure thyroid deficiency resulting from surject operation. In both, the symptopers of deficiency was relieved and the chemical character of the blood was restored to contain. Lawrate R. Disserting M.D.

Taylor IL K., and Nathersons, L.: A Resultinological Study of Tuberculosh of the Larynz see Neck. Am. J. Resultsoni., 914 23 559

The authors state that laryngeal tuberculosis or ours often enough as a concomitant of the maligness type of pulmonary tuberculosis to warrant routing rocotpen studies of the larynt in cases of tubercalow of the lanes. They refer priefly to the studies of tuberculous of the larynx and neck hich have been made by others and discuss the pathological changes in the condition at some length. In describing their own technique of examination they emphasis the Importance of a complete rocatemological stad in cluding observations during phonation, imperation, expiration, and swallowing, with and without the use of barlow, and, in addition, a lateral telecocatgenograms, one taken while the larynx is at rest and the other while the patient is making high pitched E sound. They describe the structures hich may be visualized under normal and pathological conditions and show them in rountgracersma

Tabereniem lesion of the larges or classical by the surban in 3 groups—the malinel, the surbcrate, and the systems. This classification is bred on their extent or trater than one scattering and logical factor. The informal lesions are located as remitted or the largesty record area observed as moderns. Located the largesty record area observed and the largest control of the largest condicated the largest control of the largest condicated the largest control of the largest condicated the largest control of the largest control of the appropriate lobel. I have They may also also via a dispected soil themes. The criterial lesions after practical all of the largest of largest control of after practical. may also involve the contiguous tissues Involvement of the epiglottis is particularly pronounced in this group. The changes demonstrable roentgenologically in each of these groups are discussed at

length

Correlation of the roentgenological with the clinical manifestations in 100 cases studied revealed a slight discrepancy, especially in cases of minimal lesions. A few minimal lesions were missed on roentgen study and i lesion which had been missed on physical examination was discovered on roentgen examination. In the cases of moderate and extensive lesions there was little difference in the findings except for slight variations in the pathological details. Pul monary tuberculosis of the caseous pneumonia type was present in 93 of the roo cases, pulmonary tuberculosis of the exudative productive type in 5, and pulmonary tuberculosis of the proliferative type in 1 In 1 case the chest was negative

With regard to the differential diagnosis the authors state that roentgen examination of the neck will not always permit an absolute differentiation between larvingeal tuberculosis, syphilis, benign and malignant neoplasms, and paralysis of the vocal cords. They describe briefly the changes which are more or less characteristic of these conditions. They state that unless the lesion seen in the larying is very characteristic of a condition other than tuberculosis the presence of pulmonary tuberculosis is usually very good evidence that the pathological involvement of the larying is tuberculous. In many instances the site of involvement and the gross pathological changes visualized in the roentgenogram suggest the diagnosis.

In summarizing their article the authors state that roentgen study is an aid in the diagnosis of laryngeal tuberculosis and should supplement the laryngologist's examination. It presents a sagittal view from which the height and width of the lesion and the presence of subglottic extension can be determined. While small lesions situated deep in the interarytenoid area are not detected by roentgenography, small intraventricular lesions which may be missed on examination with the mirror are demonstrable in the roentgenogram. Moreover, roentgen examination gives a permanent pictorial record of the location, extent, and progress of the lesion.

ADOLPH HARTUNG, M D

Lenz, M., Coakley, C. G., and Stout, A. P. Roentgen Therapy of Epitheliomata of the Pharynx and Larynx. Am. J. Roerigenol., 1934, 32 500

During 1931 and 1932 the authors treated thirtyone verified epithelioma of the pharynx and larynx by a modification of the Coutard method of roentgen therapy. They give a detailed description of this method including the technical factors, the dosage, and the manner in which the treatments are administered. Only twenty-four of their cases were considered suitable for evaluation of the method and for the determination of the criteria prognosticating its success or failure. In four of the others

the dosage was insufficient, and in three a laryngectomy had been performed previously and there was doubt as to the persistence of the growth

The twenty-four cases reviewed are tabulated with regard to the patient's age, the approximate size and site of the lesion, the surface dose and neck fields, and the period of treatment. The lesions were classified according to their microscopic appearance into three groups radiosensitive, radioresistant, and doubtful, 1 e, mixed The characteristics which suggested radiosensitivity were infrequence or absence of keratinization (epithelial pearls, intercellular and intracellular deposits), scarcity or absence of intercellular bridges, marked variation in the size and staining quality of the cells and nuclei, numerous mitotic figures, and a minimal inflammatory reaction Radioresistance was suggested by the opposite microscopic picture. A neoplasm was classified as doubtful when the radiosensitive and radioresistant characteristics were equally represented.

In eleven of the twenty-four cases there has been no clinical evidence of epithelioma during the nine months to two years since the last treatment. In thirteen the roentgen therapy failed to arrest the

disease

The total dosage administered per patient ranged from 5,600 to 9,400 r/o in the arrested cases and from 7,500 to 13,000 r/o in the unarrested cases. In the latter group the larger dosage and longer time of treatment were due to the fact that the disease was more extensive and therefore a greater number of fields of irradiation was required

Of the eleven clinically arrested cases, 9 belonged to the radiosensitive and two to the mixed group Of the cases in which the treatment was unsuccessful, ten were classed as radioresistant and three as

radiosensitive

Necrosis of the laryngeal cartilage is much less frequent after fractionated roentgen therapy than after the older vigorous roentgen therapy given in a short time, but occurs occasionally. The authors cite several instances in which it occurred in the series of cases reviewed

Tracheotomy did not interfere with the treatment of the cases, whether it was done before or after the

roentgen therapy

According to the authors, this study confirms the experience of others which indicates that among the factors militating against successful treatment are (1) an extensive infiltrative growth, especially one associated with deep infection, and (2) tumor invasion or local nutritional changes of the laryngeal cartilages, processes which reduce the radioresistance of cartilage and favor chondronecrosis

In conclusion the authors say that the results reported are very early and may change with time However, they regard them as sufficiently encouraging to warrant continuation of the described method of roentgen irradiation in the treatment of epitheli

omata of the pharynx and larynx

ADOLPH HARTUNG, M D

MacKanty, J. E.: Malignant Disease of the Laryner Rare Types, Frenskignant Conditions, and Conditions Shaulating Malignancy And Outgraph 934, so 297

The author believes that besign indoor of the laryng rarely become mallgnant, and that mallgrant lesions which at first appear benign are malignant from the beginning, but for some biological reason their growth is kept in check for an indefinite period of time. He states that, contrary to the generally accepted theory cancer of the larvax may occur to young persons. If has seen it in five patients under thirty years of age. Four of these patients were women. Three who were operated upon were free from recurrences for four three, and one year respectively. Larvageal carcanoma in the young in more common in nomes than in men, whereas larynges! caressoms occurring in later life is more common in men than in wessen. In young persons cancer of the larvax mapt to be mistaken for an infectious granuloms or a benign seopissin. If laryngeal tuberculous can be excluded, bropey should not be delayed when laryngual carcinoma is suspected. Biocay should not be done in cases of laryageal tubenculosa

Executes of the laryer is rure. Mackenty has observed only one case. The leefon recentiles a slowly propressive chondrills with a sward displacement of the laterilaryaged streetures without marriag or chasquing of the surface. The characteristic appear ance of a sadignant growth is not seen in an come until the leanon treats through the mucons

membrane.

In two of the suthor's cases of laryngest tracer
the condition followed prolapse of Morgagus a ventricle. Both of the naticals mave a history of synchile

and were engaged in an acceptation demanding exconsider use of the voice. MacKersty reports the a case of choodritis of the thyreld cartilage wide assulted in concer and a case of larguaged accessibly

In a man sixty three years old.

Sciences of the kiryax is the result of laterials with a specific micro-organize, the Friesh bendus. The Itsions are descrite, birish-red, ordensities reading with a relateriate granulomat. The result is a specific with a relateriate granulomat. The result is a specific micro-scaring and attraction may where its. They may regiged increase Scarling and strepply may occur. These binds are store someonem in termsless than in makes. They began downward. In the interior part of the small septime and ended downward in the laterial part of the small septime and extend downward. In the laterial ways, they recently that convert day mailtained conditions of closely that convert day station, and buopy. The treatment indicated is rought introduction.

to the control of the layer, may occur as leaded to the layer of a generalized nurvisation is the solution or as part of a generalized nurvisation is the author has observed one case. The noplems are authorized by some to an overproduction of observed the solution of the control of the cont

tion of radium.

Blastomycosis of the larynz, which is rure is

America, is apt to be mistakes for tuberculosis

Pumphigus of the larynx is also rure

AUTOM COMMINE, M.D.

# SURGERY OF THE NERVOUS SYSTEM

## BRAIN AND ITS COVERINGS, CRANIAL

Encephalography in Children

Walker, A E Encephalograph
Am J Roentgenol, 1934, 32 437 Children presenting neurological signs or symptoms referable to chronic or stationary lesions of the brain comprise a large group in which encephalog raphy frequently yields valuable information This dagnostic aid is particularly important because many clinical syndromes of childhood have varied changes in the brain as a pathological basis

The encephalographic findings in some of these clinical syndromes of childhood are as follows

Agenesis Cerebral agenesis may occur in any part of the brain, including the cerebellum. In this condition the encephalogram shows collections of ar in various parts of the brain and cerebellum, depending upon the local agenesis present

pending upon the local agenesis present

Birth injuries may be manifested by arachnoiditis, ventricular dilatations, or

3 Late infantile palsies Infantile palsies due to acute cerebral insults in the first year of life are usually hemiplegias. The encephalograms in cases porencephalic cysts of such palsies show quite constant lesions either in the form of a dilated ventricle on the side opposite the paralysis, arachnoidits, or an area of cortical The findings in three cases

were practically identical All showed a marked atrophy on that side internal hydrocephalus with evidence of severe

Mongolian idiocy Only one case of mongolian aplasia of the frontal or parietal lobes 5 wongonan idiocy one case of mongonan idiocy has been reported. The findings in this con

dition consist of ventricular dilatation and marked

The encephalographic findings in o Ephicipsy in children, as in epilepsy in adults, present aplasia of the frontal lobe

Acute inflammatory diseases of the central nervous system (encephalitis, meningitis) no constant features nervous system (encephanus, meningus) Eucephalography in acute inflammatory diseases of the central nervous system in children has been

eases of the central nervous system encephalography found of no diagnostic value often reveals the site of the most marked patholog-

that organ

The Bielschowsky Jansky type of amaurotic The findings in this condition consist of a greater increase of air in the sulci and over the cortex ical process greater increase of an in the suiter and over the cortex of the anterior portions of both hemispheres. Mild dilatation of the lateral ventricles and air collections about the cerebellum indicate marked atrophy of

b Basal ganglion disease The findings consist of a considerable amount of air in the sulci over the cortex of the brain and an enlargement of the anterior horns of both ventricles due to the diminution of the shadow caused by the caudate nuclei

9 Cerebral trauma Although children are subpected to cerebral trauma much more often than adults, it is relatively infrequent that serious sequelar The minor after-affects so are seen in the young the so-called post-traumatic often present in adults—the so-called post-traumatic. syndromes of headache, dizziness, visual disturb-

ances, and inability to concentrate—are practically never complained of by children under the age of Occasionally, however, they occur in children between the ages of ten and fifteen vears The roentgenographic findings are not constant

Calrus, H, Donald, C, Scott, S, Ormerod, F C, and Others Discussion on the Diagnosis and Treatment of Abscess of the Brain Proc Roy

CAIRNS and DONALD stated that abscesses of long duration usually have walls 0.5 cm or more thick

In cases of such abscesses they have obtained successful results only from complete removal of the abscess with its wall. In general there are two methods of dealing with brain abscesses drainage by the closed method and dramage by the open method In the former, the abscess is located by needing through a burr hole about 15 cm in diameter Its depth is carefully noted, the bony opening enlarged to 2 or 25 cm in diameter, the dura opened more widely, and a Jacques rubber catheter (Size 10) or a webbed intratracheal catheter pushed into the brain to the desired depth in the same direction as the needle If pus is located, the catheter is cut off about 2 cm above the surface of the brain and a dressing is built up about it. The whole head is then encased in a starch dressing to keep the catheter from moving By the open method drainage may be established

through a limited opening (4 or 5 cm in diameter) or through a large opening made by turning down an osteoplastic bone flap. In cases of thick-walled ab-

Whatever method is used, the after-treatment is scesses the latter is more satisfactory The patient should be placed so that drainage of the abscess is favored by graviti, Dressings should be changed infrequently and the first dressing should be left undisturbed as long as possible, usually from seven to ten days Earlier changing

of the first dressing should be done only when some complication ensues or the patient becomes uncomfortable because of the discharge

The postoperative complications include a rise in the temperature, cedema, meningitis, squint, double vinon, incomplete drainage, recurrence and epitepsy Orderna and meningatio both probably pany a part is the meningation of the probably pany a part INTERNATIONAL ABSTRACT OF SURGERY

recurrence of the sambions that occasionally from the accuracy of the sambions that a fair in the recurrence or the symptoms care precuredly improvement after operation. toton their observations Calms and Donald have From their conclusion that there is an active concern one retime to the concernion that there is an active curre-lation of fluid in the white matter around brain abscenes. Angel certain quematances this mal bin written and in the same institut anomas carin soscenes. Used certain circumstances can may possessing the abacest cavity while under other circumstances as in bostoberative expense it may circumstances, as in postoperative overess, it may accumulate in large amounts in the white matter. It actualizate to make anything orders may be consed a possible that possoperative cruems may be caused as infection in the whosty or parties by the spread at talection in the members and brain itself at the time the abacess in memore and train their at the time the energy at dialnest. Spreading recomplishes can exist without any of the charged signs of mentulatin con cent armons and Don-cratter absential restriction con cent armons and

et the creations when to encountries of the contraction of the contrac and recover that a certain amon ( or membrane alwast occurs after the cause of the orients, it state that whatever the cause or the calculation for the dependent and the treated by further surgery should not be trusted by forther surgery Incomplete durings and recurrence may be due to the fact that the abscent is multipositive or that it

to the lact test the sources is minimized or test in and actually owner temporaries want into an income, ing tissue. The cases in which recurrence of the abing trace: 1 to cases in warran returnesses to two access is most to be leaved are those in a life neutroectal is most to be trained any those to a tree neuroagent with portion of states or recovery to occur these, and where there is probably indicates and these and where course is from which recurrence one develop later 

in some cases the chances for soccastal countries are careed are extremely pose from the beginning because of the seventy of the infection and beginning because of the extensy of the american and the last resistance of the patient, but there are many the ton transfer death is due not so much to the incase to work ments to one on an array the infecthe as to the entropy of mability to find and deal adequately with the above

despates) with the anserts.

Scory and that improvemental abscent like Scorp and that temperospheradid aboves, the certificity, shown of ordit cruys, is due to historia matter to the advancement of the body and story and story contains the containing the co institution advanced bett or one next creater vi a justistable to explore only a beat the signs and symp-toms are to the mattless. These may be a rived late for grouping mattless. These may be a rived late for grouping the carbonal of the carbonal rived late to the carbonal carbonal carbonal carbonal rived late and for because of this matter.

In operations for brain abscers according to needthe car character the first step actacles emphastics of on car onesse the arts are science attendances the mesons and opening of the dars follow th dramage of the abscess if it can be located

the drainings of the academs is at a the accuracy. On active of expressed the opinion that the frames of opening the often very hard boos with mallet of space is not or trivial over the matter of the so-called organic of the boxes which is trivi this so-central calasma or toe operar aroco is actaly

Managery stated that he regarded it advisable sometimes t use the force as a probe RALLAYOU stated that the best method of treatles origing packed in the thermore removed or reasonal transfer to pean appearing

JOHN BRIME PRIOR M'D

Delado, II. and Parelal R. (Service) Transverse of (Typer-Cypne) and Partity prophysical format of (Typer-Cypne) and Partity prophysical format (Typer-Cypne) and (Typer-Cy (Francisco Generalico de los temoro dipositivos de los temoros de la securi 1914)

Following a discussion of the pathological the scientifics, Again samplesses of the battoonkers core-According visual symptoms and routine sizes of hyperhyperhad perhapsymposity seed in market the section describe their sections are from their represent the section of the describe their recomply and report four reperced.

And results in the surface treatment of sock traver. and results in the surposi treatment or some tracer.

The conditions they treated lackness hypophesis. And conditions they drawn increases appearant lamors, meningeomata, gliomata of the space serve. tamond membershale frames as the class said the case at thouse by the case at thouse is thoused in detail with Illustrations.

Francisc C. ILs Bilateral Tripernical Correlate

In the 16d cases of major information bready admitted to the Neurosurgical Clark of the Rospital of the Ontalify of Linuxhiange \$12 olarious on the instance of of one American transfer to the second transfer of the second tool of transfer transfer on the formal formal transfer is easier than the second transfer of the second transfer is easier than the second transfer of the second tran torner time enter tremment scorage stores they a certain disease, there were a actionic case of biglioni ferrorment. The fitching is cases of business involvement. The manners is business in the control of the cont

Costing reports the incidence of belsteral larger Cashing reports the incidence of biliteral involves as 6 per cent, and Alson, as 1 per cent, and Alson, as 1 per cent, and Alson, as 1 per cent as incidence of 1 per cent information in our which incided "prof 2 per cent information in neutring in major in protecting decrease of the period of the center of the center of the period of the center of th mill some form of chipote studies in parameter some to with some sound on current states to investigate these of meaninated scarners tharts may have case or described ed sciences in association with trigonisms. beautiful are too memorrous to be accounted for by neuropsu are too numerous to be accounted not of the manifest both conditions were present an able to recall an able to

In the decions of the common series because the manner poer coordinate series because the manner of the coordinate series because the manner of the coordinate series because the coordina an the consciency unamounted with organs cotor exercise in the doubletters associated with the her wantes or we toompriess amounted nice on a secondary size of the secondary size of t schools are ross appearing were the security as natural, he occurate must be conserved a train-origin Campot cardy be founded as the same category origin campot cardy be founded as the same category As occasional cases involvement a message conservaof the face occurs simultaneously As a rale, how on the server purposes of a range server, securify of the other skie does not dreshy until after as interval, and in some cases the interval

may be many years. As mile also, the involvement has been seen on the second side than on the side is now every on the second must have on the me primarily involved. The author reports a case with primarily involved. The author reports a strengthn of the pain, which is very current. With regard to the cause of the condition, so coors is known today than was known two headers Petry ago. Because of the party-and two sessions of the

year ato Because of the parayanel type of the path and because, regardless of the duration of the condition, no evidence of Hindard damage can be common, an examine or energial annuals can be common to the transfer system, it seems possible that the bays use redement sharen is not In cases of bilisteral tarouvement radical operation

on the second side is not always indicated thereing the second side is not always indicated. Because of the combaratase uniquess of the accassers sequence on the account seek as seek strata.

the fact that it is usually confined to a single division, alcohol injections are often sufficient. Of the 23 cases of bilateral involvement reviewed, a bilateral major operation was performed in only 5 In o cases, operation was performed on one side and alcohol injections were made on the other, in 6 cases, operation was done on one side and the pain on the other side did not require treatment, and in 3 cases, alcohol injections were made on both sides Since the development of the operative technique which avoids section of the motor root, the radical operation on the sensory root can be done safely without corneal complications or loss of function of the muscles of mastication. The mortality in the cases reviewed was o 8 per cent

In conclusion the author says that the choice of

treatment should be left to the patient

EDWARD S PLATT, M D

#### SPINAL CORD AND ITS COVERINGS

Peet, M M, and Echols, D H Herniation of the Nucleus Pulposus A Cause of Compression of the Spinal Cord Arch Neurol & Psychiat, 1934, 32 924

At its circumference, each intervertebral disk is composed of laminæ of dense fibrocartilage forming the annulus fibrosus The fibers run obliquely from one vertebra to the next and are firmly attached to The nucleus pulposus, an incomthe vertebræ pressible, semi-gelatinous mass, is found near the center of the disk. Interposed between the disk and the adjacent vertebræ are thin plates of hyaline cartilage Histologically, the nucleus is composed of loose fibrous tissue, a few cartilage cells, remnants of the notochord (large multinuclear cells), and a gelatinous matrix. Confined to its position by the elastic annulus fibrosus and the 2 cartilage plates, the nucleus pulposus acts as a shock absorber and a hydrodynamic ball bearing for the spine

Local degeneration or trauma of the intervertebral disk may produce a minute fissure in the annulus fibrosus or in a cartilage plate When this occurs, the nucleus pulposus, which is always under pressure, hermates through the defect. When the cartilage plate is fissured, the nuclear material forces its way into the cancellous bone of the vertebral body. The invading substance then undergoes proliferation and organization which finally transforms it into a firm nodule of cartilage, and a wall of dense bone is laid down about the lesson, making it visible in roent genograms The fissures which develop in the annulus fibrosus are usually situated posteriorly Consequently, the prolapsing nuclear substance enters the spinal canal. There it forms a swelling under the posterior longitudinal ligament, usually to one side of the midline There, also, secondary changes take place, transforming the herniated material into a firm nodule of cartilage which usually remains attached to the disk. In examinations of the spine in a series of 368 autopsies, Andrae found 56 cases of posterior nuclear extrusions ranging in size from that

of a hemp seed to that of a bean. All but one of them were too small to have produced compression of the spinal cord These nodules may be found along the entire vertebral column and may produce signs of compression of the spinal cord at any level

In the authors' first case the syndrome of involvement of the cauda equina was presented Lateral roentgenograms showed narrowing of the disk from which the nucleus pulposus herniated In addition, the degenerated vertebral body showed a rarefied area which indicated that a nuclear substance had also ruptured into it

In conclusion the authors state that when a clinical diagnosis of compression of the spinal cord has been made and there is evidence of a diseased intervertebral disk at the proper level, retropulsion of the nuclear pulposus should be considered.

DAVID JOHN LIPASTATO, M D

Lehman, E P Uretero-Arachnoid (Ureterodural) Anastomosis Ann Surg , 1934, 100 887

A brief review of the surgery of communicating hydrocephalus is followed by the report of two cases treated by uretero-arachnoid anastomosis and one case treated by ureterodural anastomosis

The author emphasizes that the kidney pelvis must be anastomosed to arachnoid membrane if the patency of the anastomosis is to be maintained He regards the suture of the pelvis to the dura as entirely incidental and of importance technically only for firm union

One of his patients died of meningitis seventeen days after the operation, and another twenty-two days after the operation, apparently of acute dehydration. In the one case in which autopsy was done following a uretero-arachnoid anastomosis, the anastomosis was found patent, but apparently had not been functioning

An adult patient who was not benefited by the formation of a left bone flap and subtemporal decompression showed improvement following a ureterodural anastomosis Arachnoiditis was apparently responsible for the increased intracranial pressure The author believes that the ureterodural anastomosis permitted drainage until new channels were formed and compensation in the circulation and absorption of the spinal fluid were acquired Laboratory tests in late follow up studies indicated that the anastomisis was not functioning

ROBERT ZOLLINGER, M D

#### SYMPATHETIC NERVES

Ciceri, C., and Gabrielli, S Studies on the Variations of Alimentary Glycæmia Induced by Alcoholic Injection of the Splanchnics Attempts to Cure Diabetes Mellitus (Studi sulle variazioni della glicemia alimentare indotte dalla alcoolizza zione degli splancnici. Tentativi di cura del diabete mellito) Arch ital di chir, 1934 38 121

This is a continuation of the report of the authors' researches regarding denervation of the adrenals in

disbetes and the variations in almentary glycoseria produced by spirackinic amerikeds (Abst. in Drr Amer Suno 1934 59 4rs, 453) The first experiments demonstrated that in some cases bilateral deservation of the adrenals has a favorable and lesting effect on the gircumic disturbances and increases the senditivity to insulin. The results of assesthetizing the left splanchule were so beneficial that the authors were encouraged to undertake a series of experimental and clinical researches on alcohol injection of both splanchaics. Such bajections were given in the cases of four disbeties. In three, the immediate rosult was a reduction of the glycemic and glycosuria and increased sensitivity to faculin. The tests have now been repeated at intervals of several months and the procedure applied to five more subjects (one a renal diabetic) It has been learned that some of the results which appeared builliant immediately after the treatment were pot permanent

The cases are document in detail. The percise of observation ranged from six to footners month Apparently the patients were on a somewhat restricted but not scientificating calculated due! They were not under control, and some of them done paried the detary prescribious. Nevertheless the results were sufficiently definite to justify couch some air to be whise of the procedure in diabotes and to contribute ladgmatton which may prove all all the solution of the problem of the hormone

relationships in this disease.

They showed that chillicion of the secretion of the adrenal mechile has a distinctly unfavorable effect for renal chapter. Thus is probably due to the infinence of incuba and adrenaha on the renal threshold for glacose, the former lowering and the latter raising it.

In disbetes mellitus the effects on glucose tolcreace, glycemia, and glucosarie very in pa-ventle diabetic and a woman with a particularly high glycemic and glycosurie, whose theses was of seventeen years duration, there was subjective improvement with good attituation of alimentary glocose for five or at months. At the end of that tune conditions became as before except that the sensitivity to usuka was greater Evidently the in-Roence exercised on the advantals by alcohol block of the uplanchnics is not effective in all forms of diabetes Therefore t is not always indicated to compensate for the functional deficiency of one organ by producing a hypofunction of its autagonist In the two remaining cases, in which the givernman was moderate, there was considerable improvement in the subjective state general health, and tilizz tion of alimentary glucose during the entire period of observation (seven and eight months respec tively) In one of the cases the foot had been ampatated for diabetic gangrene, and in the other there was a chrosse sateratical nephritis

The authors draw the general conclusion that the method is beneficial particularly when the diabetes is associated with hypertensive circulatory disturbances hevertheless, attention is called to the fact that is all of the cases reviewed inhibition of the secretion of the drenal medults provided greater activity of the pancrestic hormone.

The article contains unmerous tables and is followed by an extensive bibliography

M. L. Moses, M.D.

Craig, W McE., and Brown, G. E.: Unifateral and Sciattral Resection of the Major and Mass of Spinning Nerve Its Effect in Case of Resential Hypertension. Arch Int. Maj. 734, 54 377

The problem of the selection of patients at cases that hypertension for operation is more complex than the selection of patients with octasive decases of the perspheral arteries for graspatient; paginase, tony. It is desirable to determine pro-porturely the probable effects of the operation on the level and responses of the blood pressure by temporarily and responses of the blood pressure by temporarily

blocking the spinochaic nerves

The authors found that under spinal assembles to the level of the nilpple inclined with small down of from 6x to fee in player inclined with small down of from 6x to fee in present as the response responses were greatly dissibled or obliverant The shoultons of the present restions by the present of the present services and the response responses were present distributed or obliverant presents are not not the present restions. Unitoward effects of lowering of the blody presents are not noted. Spinal interestings and severy presents to the level restriction to the notes and selection of the interest of severy presents to the level returnities and debrical severy presents to the level returnities and debrical severy presents to the level returnities and additional types of services are therefore members and additional types of services are therefore the returnities and additional types of services are therefore the services and additional types of services are therefore the services and additional types of services are therefore the services and additional types of services are therefore the services and additional types of services are therefore the services are therefore the services and additional types of services are therefore the services and additional types of services are therefore the services are the services and additional types of services are the services and the services are the services are the services and the services are the services are the services are the services and the services are the services are the services are the services and the services are the services are the services and the services are the services are the ser

The degree of presenc hypertrophy of the ness columns of the artenoles at of great importance is predicting the probable postoperative depressor effects. This can be determined by careful examina tion of the retizal arterioles and by noting the presence or absence of spartic phenomena. Path ological study of arterioles of specimens of much removed for hopey giver decisive information to to organic graduag and the proposite. It wast be recognized, however that the degree of change in the arterioles is not uniform throughout the body and too exect deduction cannot be made from the changes in one group of arterioles Craig and Bres a are of the opinion that for operation is a case of hypertension the subject should be less than forty five years of ga, the levels and responses of the blood pressure should be markedly variable, and changes present in the smaller arterioles should not be advanced, and severa, degenerating charges should not have occurred in the industry, heart, or brain. These are the major requester. A band land of the destroic blood pressure of more than 100 H describie

Emercial hypertenson is assumed the the result primarily of (t) a hypertenctive visionictor resurt

with exaggerated pressor responses from psychic, sensory, chemical, or hormonal stimulation, (2) organic hypertrophy of the arterioles consecutive to the expective randing responses. the excessive, rapidly varying intra-arterial stresses, and (3) superimposed renal sclerosis and associated vasospastic reactions in the more advanced stages Vasuspassic reactions in the more auvanced states.
The two last-mentioned conditions are believed to be peripheral while the first condition is believed to be central Theoretically, operative measures which block the central mechanism from the splanching circulation should be effective in the absence of marked disturbance of the peripheral mechanism This concept of the various stages in essential

hypertension is useful in the interpretation of postoperative results. It emphasizes the stage of the postoperative results in emphasizes the stake of the disease in which the most striking improvement from operation should be obtained

Five patients with essential hypertension of varying severity were subjected to unilateral or bilateral resection of the splanchnic nerves and removal of the first lumbar ganglion In two sub-Jects a significant quantitative reduction of the pressor reactions to cold resulted In one subject subjective and objective improvement was striking In the most severe forms of essential hypertension with early renal involvement and advanced organic with early icual involvement and advanced organic changes in the arterioles the effects on the blood

In conclusion the authors state that resection of pressure have not been striking the splanchnic nerves is a relatively safe operation The spiancing nerves is a relatively sale operation. No untoward effects from it have been noted Further application of this surgical procedure is Justifiable in the early stages of the severe progressive forms of essential hypertension in coming persons

#### SURGERY OF THE CHEST

#### CHIEST WALL AND REPART

Garnier C. The Surgical Treatment of Fannel Chest (Traitement chirargical du thouax en entonnois) Res Carties 1014 4 185

Garnier reviews the history of the various operations performed for the convention of finned these or "pipen insust. The operation developed by Chabridgen and the vittors and used in seven cases consists of section of the costal cartalages of the higher the sixth this on both sides, Takaped section of the steraum, wiring of the steraum, and the adjustment of an orthopetic apparatus to undinata trackion. The apparatus is worn for from theirly-five to forty days. Subsequently a cancet is worn for at least two months to malinata the correct posters. Respiratory conclusive speciation of the conpactions are presented to increase the chast expantances are presented to increase the chast expan-

More recently the a they has devised an operation

for pieron breast which does not involve section of the sternum. He has performed it on two children. The nations wears an orthopodic cornet before the operation, and the operation is performed with the patient lying on the posterior half of the corner with the autorior half removed. The operation is done in two stages expansived by an interval of six to seven days in order to avoid long operation and to provide a gradual decompression of the heart. In the first stage a channel is cut in the upper part of the stagmin (not a complete section) in order to mobilize the sternum and the costal cartilages of the third to the eighth ribs are resected on one side, preferably the left. In the second stage the costal cartilages on the other side are resected and the orthopetic pparatus is adjusted to exert traction. For traction the author has devesed special traction forcers which are at tached to the lateral borders of the sternam. The antener half of the count is replaced to sasist in holding the traction apparatus in place. This pparatus is not removed until the forty-fifth day after the second stage of the operation. The corner is worn for at least two mouths more, and respiratory exerclass are prescribed.

The first operation described is long and up to access shock in the first team from four hour. Two of the patients subjected to it died from cardia faither and third deed with arms and anotons for days after the operation. With the second operation, parformed in two stages, shock and crutane damage are resided. The author has found that the second operation from the stage of the second operation in the stages, and the second operation is called the second operation in the stage of the second operation is called the second operation in the financial deformation operation is inclinated in any case is which the thoract deformatic compresses the thoracte organs and causes publicatory or cardiac graphics.

deformity is congenital or due to trauma and whether the patient is an adult, an adolescent, or a child. Assa M. Myren

Helmen, J t The Study of Benign Neopleans of the Rat' Breast. Ast. J Cancer 934, 227497

Benign thermate and they advenues as them, these at we saidy and contineously inseptiated. When transplanted, they prove not only to the region of the naturnary glands but she in the still region of the naturnary glands but she in the still region, the stape of the next, the outer side of the tigal, and the abloadmail carrier. The transplanted tenser do not always retain the structure of the spontaneous do not always retain the structure of the spontaneous document fluctuates which yether as the not considered and the structure of the spontaneous Although the growth energy of the tuneous deciment of the structure which there is no considered and the structure of the structure o

Timors of this type grow as readily is add not as in young rate. In the former the growth tests toward glandular hyperplasia, and is the latter in ward a marked increase of fibroblasts. It was found that three of the six primary fibro-admorata of the breast which were transmissised through four or more generations became actively growing celular tumors with the morphological structure of sur comats. Som of the namers alcerate through the akin, but the pleasation is due only to present on the akts and is not an evidence of malagnancy With a large number of inoculations and the haplastation of two or more iragments 3 mm. in diameter them benign tumors are readily transplantable for many generations in suitable hosts. When the benign tumors develop into sarcomata smaller and fewer fragments are required for transplantation. Our such tumor has been transplanted by the trocar method with the use of 3 mgm of inmor solutions. for fifty six generations Of sixteen rate with spontaneous benegn tunsors, six (17 per cent) yielded turnors which were transplantable for from loar to JOHNS K NAMES IN D. filty-three reperations

Malintak, J. W. The Prevention of Necrots in Plastic Repair of the Bresst. As J. Swy. 014, 96, 991

After frequent plastic repair of deformed bressts depends upon the salety of the procedure and the percentage of satisfactory results. The author emphasizes aspecially the importance of preserving the

blood supply to prevent accrosis.

The blood supply of the breast is provided by the external mammary branches of the lateral thoracle

artery, the internal mammary artery, and, to a less There is little anastomosis hetween these sources As the areola is extent, the intercostal arteries supplied from behind rather than from the periphery, a circumareolar incision does not endanger it. The precautions necessary to prevent necrosis

are preservation of the blood supply, which is accomplished most safely hy the two-stage proaccompashed most safety my the two-stage procedure, the avoidance of undue tension, the prevention of torsion, careful hamostasis, the avoidance of undue trauma to poorly resistant fat, and careful approximation of the skin The most frequent site of necrosis is around the areola or in the flap hetween the areola and the suhmammary inuse netween the arcon and the summamment in cision. A thick shin flap permits preservation of the THOMAS W STEVENSON, JR, MD

cutaneous vascular plexuses

#### TRACHEA, LUNGS, AND PLEURA Non-Parasitic Cystic Disease of the Its Clinical Recognition and Treat-Pearson, E F

Pearson reports nine cases of non parasitic cystic J Thoracic Surg, 1934, 4 84.

disease of the lung in detail and supplements his discussion of the diagnosis, treatment, and prognosis

Case I was that of a male infant eighteen months of this condition with roentgenograms, old who had a ruptured balloon cyst with spontaneon who had a ruptured bandon cyst with spontaneous pneumothorax, Case 2, that of a gril twentyeight months old with a cyst which had ruptured and caused pneumothorax in a lung with a sarcoma, Case 3, that of a male infant one year old who had a cyst complicated by pulmonary infection, Case 4, that of a girl fourteen years old with multiple uniunat of a gair routicent years one with muniple unateral cysts simulating bronchiectasis, Case 5, that of a grl eighteen years old with a large cyst which contained fluid and was infected by the Pfeiffer contained mind and was infected by the fields bacillus, Case 6, that of a man twenty-six years old who had a multilocular cyst infected with the bacillus influenzæ, Case 7, that of a man thirty eight years old who had cystic disease associated with bronchiectasis, Case 8, that of a man forty-four years old presenting emphysema with unlateral cyst like areas in the upper lobe, and Case 9 that of a man sixty six years old who had a pedunculated

Cystic disease of the lung causes clinical symptoms of the widest variety

The may simulate clinically and

The may simulate clinically and

The may simulate clinically and

The may simulate clinically and cyst of the pleura roentgenologically pheumotholas, tubelculosis, bronchiectasis, lung abscess, empyema, emphysema, and other chronic lung diseases

Affectly required all displacements and other chronic lung diseases. and other chrome lung diseases ands—the history, physical examination, X-ray examination with unyarea chammanon, Aray chammanon with indized oil, diagnostic pneumothorax, and operative exploration The treatment in a given case depends exploration functions number, size, and contents of the cysts, and the presence or absence of associated pulmonary and upper respiratory infections the cysts persist for years with infection successful therapy requires their radical surgical removal

Thoracoplasty Versus Pneumo-

A comparative study of the respective advantages thorax J Thoracic Surg, 1934, 4 30 and shortcomings and the physiological action of the Coryllos, P N two outstanding methods of collapse therapy for cavernous pulmonary tuberculosis, namely, pneumothorax and thoracoplasty, leads the author to the

The routine application of hed rest, pneumothorax, and thoracoplasty with or without phrenic nerve following conclusions interruption in the order named, and only if the preceding procedure was not successful, constitutes a ceums procedure was not succession, consultates a "hit and miss" treatment which may lead to loss of time and irreparable disasters Bed rest should not he prolonged beyond the time necessary to make a reproduct beyond the time necessary to make a certain diagnosis of cavities. When once this diag. nosis is made, no time should he lost in the hope of the remote possibility of spontaneous closure of the cavities Collapse treatment should be applied with-

Pneumothorax should not always he applied hefore thoracoplasty is performed. Each of these procedures has its own indications cedures has its own indications. out unnecessary delay a more efficient and expedient method of treatment than pneumothorax, greater discrimination in the respective indications for these procedures should be respective indications for these procedures should be

In cases of cavities of the extreme apex, in which pneumothorax seldom produces efficient collapse, apical thoracoplasty in one or two stages with resecattempted apical inolacopiasty in one of two stages with reserving of no more than three ribs in each stage is the method of choice and no time should he lost in an attempt to induce pneumothorax Good results are obtained in from 60 to 80 per cent of the cases and

the mortality does not exceed 5 per cent When the condition of the patient allows it, thoracoplasty is a better procedure than pneumothorax

also for unlateral lesions with marked destruction of pulmonary tissue Very often, in cases of such or pulmonary ussue very origin, in cases or such lessons, re-expansion of the lung cannot he obtained after prolonged collapse by pneumothorax and conunuation of the pneumothorax for life becomes

In the cases of toxic or aged patients pneumothorax should be attempted first If a successful collapse 15 obtained, it should be continued, but if necessary the pneumothorax is not successful thoracoplasty should be performed without delay if and when the

In bilateral cases in which the process is located condition of the patient permits it. exclusively in the apices above the second rib, bi lateral thoracoplasty is the method of choice. From three to five ribs may be resected on hoth sides with no greater danger than in unilateral cases procedure allows preservation of lower lobes, which with bilateral selective pneumothorax is possible

When pneumothorax has not produced a satisfactory collapse and section of adhesions cannot comonly exceptionally plete the collapse, thoracoplasty should be performed without delay as incomplete pneumothorax is dan-

gerous

When pneumothorax cannot be induced, thoracoplasty should be performed without losing time in

the hope of spontaneous cure. For cases in which there are basel cavitles or cavities located very close to the billum, pneumothers:

appears to be a better procedure.

I DANCEL WILLIAM M D

Joseph, H.: Theracophaty in Bilatural Covernous Tuberculosis. J. Therack Surg. 1934, 4, 1 Thoracoplasty in bilateral tuberculous produces a

permanent stat of lung collapse. Tuberculosis is always a disease of the entire organism, a general infection with all the properties of such an infection Each cavity is a metastatic filmen. Moreover tuber culoris is an individual problem | Ith a constitutional and biological basis There may be a continual change between periods of activity and inactivity Therefore all surgical treatment must be adapted to the present condition and character of the disease The correct time for surgical intervention depends upon the general state of the body. Operation is advisable only after a long period of preparation and treatment. Thoracic surgery in tuberculosis deals with an organism damaged by chronically poisoning discuss and with toxic weakness of the heart and blood vessels. It does not eliminate the diseased organ, but establishes the mechanical conditions necessary for fibrotic transformation of the tuber colons times

In bilateral cases thoracse surgery is justified only when the patient is sufficiently able-bodied to make um of the help given and the intervention will not cause irreparable damage to the existing power of resistance. In to case of lung colleges is it possible to control the totality of the infection. Nor is this accessivy slace the purpose of all treatment is deliverance of the organism from the seals focus of

intersection, a curity or a system of cavities Total thorscoplesty is possible in bilateral cave nous tuberculous if the cavity of the better afde belongs to the secondary state of allergy if the reneral defense of the organism to not exhausted, and if the patient is withing to risk an eventual artificial collapse of the other lung. Total theracoplesty of the more affected lung is also possible if the better lung presents only small tertainy cavity which can heal after the restoration of a general immunity or

with the help of medical treatment alone or with the ddition of phrenkectomy presmotherax or par-tiel thorscoplesty. Partial thorscoplesty for both lungs is justified in cases of strictly localized de struction of the top of both burgs belonging to the struction of allergy tertlary stage of allergy J. Davier, Winness, M. D.

Edwards, A. T., and Thomas, C. P. One-Stage Lobertomy for Bronchiseranis. An Account of Porty-Eight Cases. Brd J Surg 484. # 2

I the a thors treatment of brouchiectase the son-operative procedures, namely postural drainage, bronchoscopic aspiration, and the use of certain drags for their specific action on the spiracheten are employed chiefly to prepare the patient for operation. Collarse methods such as artificial pneumothorax, phrenkectoray and to a seal satent partial thoraxoplusty are filtrain med primarily as pre-operative preparations for radical extinuation of the disease.

Cautery pocumectomy as devised by Grahes is still the radical operation of choice in case of broachiectasis with associated lung abscuses of farge size. The patients with undateral broaching taxa who are particularly benefited are these who daily expectorate large amounts of pus with a very offensive odor and those who have repeated

hemoptysis The technique of one-stage lobertomy the per operative perparation, and the induction of fatratraches) insufficien nitrous code-cayeen surations are described in detail

In the operative technique a long curved inchios is made at the seventh laterspace and curved appear posteriorly. A portion of the seventh rib is resected subperiosteelly to limit the postoperative pain, and no sorreider is introduced to sive adequate es

DOBBLE The lobe is mobilised and the hillers leolated. The pleurs is well protected with game esturated on acrification solution and a strip of gause misrated ith to per cent coolins is sympped around the fillion of the affected lobe to americative the perw

endings and prevent reflex effects The loop of the authors modification of Shore stone a tourniquet is adjusted to the laken

Particular care is taken t sponge the cut surface of the halum as it is divided dutal to the tournique. The stump is toucked with novamentheast to destroy anatrobic organisms, and the luming of the seals broach! are swabbed with pine phenol or se per cent aliver altrat to destroy the mocross men-

braze Hiemostasis is obtained by placing matters autures of chromic nature in the stump. The tourniquet is then removed. No attempt is made to attach the stemp to the

adjacent lobe The wound is closed in layers, and a catheter is

brought out through an intercostal stab wound has ter seal to provide drainage f forty-eight cases in which this one stage lobe?

tomy was done for broocksectuals there ere four deaths associated with the operation and there subsequent deaths from complications. Of the fartyone patients he servived, six have residual symp toms which are slight as compared with their original symptoms and therty-live are symptomics. In an appended note the authors state that since

the preparation of this report the operation has been done in othe more cases with one death. The total number of cases in Mich it has been performed in therefore fifty seven, and the total mortabry early and late, is a per cept

PRODUCE E WALTER M.D.

200

HEART AND PERICARDIUM Beerens, J Tuberculous Pericarditis (Lapéricardite rens, Juderculous Ferrandia (Paperland) tuberculeuse) Rev belge d so méd, 1934, 6 727

This article reports observations on tuberculous percardits made over a period of several years The author states that, according to the literature, few conditions are more difficult to recognize Difficulty 15 particularly apt to arise in the absence of a history suggesting the condition The most common symptoms are precordial pain and dyspnox The pain may be extremely severe and felt over the lower sternum, neuralgic and referred to the scapular or interscapular region, due apparently to pleural or interscapular region, due apparently to pieural inflammation, of an anginal character, or very check or intermittent

The dyspnæa is not constant It usually occurs during active muscular effort Often it is due to slight or intermittent limitation of the amplitude of respiratory movements from the inflammation of the pleura or menus iroin the minamination of the phenomena diaphragm By some, the respiratory phenomena diaphragm are the source of diad on the have been attributed to the pressure of fluid on the

On physical examination a precordial rub is usually found in spite of the presence of considerable fluid in the percardial sac. The sound is always myocardium superficial, but varies in character and intensity Percussion is of aid in outlining the borders of the The left lung may show

evidence of compression due to expansion of the pericardium This is a valuable diagnostic sign X ray examination gives the most valuable and in

outlining the cardiac shadow Rapid changes in the size of the heart shadow usually indicate effusion

The electrocardiogram may show some alteration in the tracing, but this is due to associated myointo the pericardium

Tour clinical types of tuberculous pericarditis are described, (1) the dry type, which may be acute or described, (1) the day type, which may be acute of subacute, (2) the latent type, (3) pencarditis with carditis

Infectious pericardius arising from such conditions effusion, and (4) adhesive pericarditis as scarlet fever and septicemia is easily recognized as examination of fluid obtained by diagnostic puncture will show the bacteria associated with puncture will show the pacterna associated with those diseases. In the cases of old persons, pericardual effusions associated with renal disease may be confused with those of tuberculous pericarditis confused with those of tuberculous pericarditis from ing childhood and adolescence, pericarditis is usually rheumatic Absence of a history of exposure to tuberculosis and the results of anti-rheumatic treatment will aid in the differential diagnosis Examinament will and in the uncreation diagnosis examinabacillus Animal inoculation should be done if the

The prognosis in tuberculous pericarditis depends organism cannot be found to a great extent upon the progress of the pulmonary lesions and the degree of damage to the heart muscle. Cure may sometimes be obtained from rest and diet

The need for evacuation of the pericardial fluid depends if the general condition is satisfactory upon the amount that is present and the embarrass-

Jona, G. Cardiac Symphysis, Brauer's Operation (Sinfisi cardiaca Operazione di Brauer) Politilin, ment it causes

A woman thirty-eight years of age, who, five years previously, had had bilateral dry pleurisy, in February, had had bilateral dry pleurisy, in February, in Febr ruary, 1934, suffered a second attack on the left, ruary, 1934, suncted a second attack on the left side which was followed by dyspnæa, ascites, and adema of the legs On her admission to the hospital she presented the picture of grave decompensation without evidence of a valvular or myocardial lesion but with difficulty in the emptying of the jugular veins, particularly the left, and a smaller radial venus, particularly the left, and a smaller radial A diagnosis of tuberculous

As treatment with rest and cardiac tonics caused only transitory improvement, precordial thorapericarditis was made cectomy was decided upon The favorable factors were the patient's age and good nutrition, the absence of valvular lesions and probably of advanced myocarditis, the good condition of the visceral pamyotanuna, the good condition of the viaceta parenchyma as shown by a normal urine, a rapid response to diuretics, and absorption of the ascites, and the absence of other signs of tuberculosis. In short, this was a case of uncomplicated symphysis anort, this was a case of uncomplicated symphysis in which life was threatened by the general circular was a case of uncomplicated symphysis.

At operation, the pleura was found adherent to the pencardium and the 2 layers of the pencardium culatory insufficiency were found completely adherent The adhesions over the anterior surface of the heart were broken up with difficulty A portion of the outer pericardial layer was then resected The diagnosis of tuberculosis was confirmed by microscopic examination The postoperative course was uneventful except for

At the time this report was written, six weeks slight fever lasting fifteen days after the operation, there is a slight but definite subjective and objective improvement. The dyspncea, nocturnal agitation, and feeling of weight in the epigastrum had diminished. The ordema had The jugular veins empued fairly well So far, the surgical result was good in that the object of the operation—improvement of dustolic aspiration—had been attained However, the total clinical result was less satisfactory, Persistence of myocardial insufficiency was evidenced by a low radial pressure, oliguria, and susceptibility

In 1929 Torraca collected from the literature 84 to faugue on the slightest exertion, cases in which Brauer's operation was done Three of the principles died soon after the operation, 15, during the first six months, and 12, between six months and five years after the operation operative mortality was therefore 47 per cent and in 25 per cent of the cases death resulted from persistence or recurrence of the disease. In 85 per cent the operation was followed by improvement

53 cases the improvement lasted more than a year and in 1 case for sixteen years

In 1931 Innormati reported is a case with as operative morthly of 53 per cent and survival beyond one year in 61 per cent in 6135, on the bard of so case, Passier advocated percardict toury claiming that Braser's cardiolyses is insention and its results, although good in pelocifie are only temporary. However, the improvement following Bearest operation was in some cases romate being Bearest operation was in some cases romate capacity even in patients who had above marked circulatory insufficiency. M. E. Kosen, M. S. E. Control of the capacity of the ca

#### OCSOPHAGUS AND MEDIASTINUM

Herzberg, R. The Austomy of the Abdominal Portion of the Chappingos (De Anatonie des Banchabachattes der Spenserocker) Destroie Eincie f Chir. 1934, 24, 265

Special attention has recently been directed to the austromy of the brotennia part of the consplaint austromy of the brotennia part of the consplaint in a stempt to explain flatin heroir and cardiançam and to determine the operability of disease of the termine of the cooperage. Heatbery favorigations were undertaken with lifests and in connection the Heater operations on man. Methods of mobilizing the abdominal part of the compangars were stimeded on austry-day academy and in termity-two experiments on annuals (dop, exist, and rubbin). Mony student were unsuccessful because of technical difficulties. Socknessions classification of ergrat types and their relationship to atches in forms was found of wather. This classification is a follows.

I. Brackymorphous type primitive form comperatively long trunk (regulopuble distance) ad

short legs

2. Dollchorsorphous type highest developmen-

tal type narrow thorax, long limbs

Alesomorphous types transitional forms Variability of races and individuals

The crophageal foramen has between the afath and eleventh dorsel vertabre. It is not canal, but an oblique, almost perpendicular, slit The crouply ages is in contact with the disphrages only on its posterior wall and there for a distance of only from I to 5 cm After entering the histor it shows a carcular so-called physiological, narrowing I the heater its wall as quite firmly attached to the fibers of the disphragus by electric connective tissue layers which form a continuation of the interpleared her ment (Morosow) Opinions differ as to whether muscle fibers pass from the disphragm to the well of the resophages Rouget, Gillet, Santonal, Wanschow and Thiele have described striated muscle fibers Subarov and Tuddes accept their findings, whereas Trestz, Walker Schungger Sexdel, Mor orow and Cunningham deny the presence of such fibers According t Hersberg, striated muscle fibers are present only exceptionally

The existence of an bideminal portion of the emophages is so longer doubted. This portion is

completely serrounded by peritoneum. In since four examinations, some of which were made as embryos, Hersberg falled to find an abdominal ner tion in only one specimen. In the inter the compa-agus formed a right agic humedately after in emergence from the histor. The leveth of the eldominal portion has been reported variously Here berr found the average length to be 1 74 cm in men and 1 5 cm. in women and the maximum length to be 3.0 cm. The length was greatest in persons of the dollehomorphous type. Age was not factor but it is certain that pathological changes such as these associated with carchospasm and britations may be associated with lengthening In case of cards speam Hersberg found an elongation to 15 cm and in a similar cause Bier found an elongation to 11 cm The verse width of the bdomine portion of the orsophagus was found by Herzberg to be 13 cm. In two cases the limit of durention as between t and 8 cm. Hersberg observed that the locisms cambaca at the site of the entrance of the abdominal portion of the assorbagus into the storack which was described by His in constant formation which does not disappear even when the stomach is empty He recognizes two types -one characterized by tonelderable depth of the indentation and an acute sarie and the other by a shallow indentation and an obtain angle which in some instances is as great as fo degrees. The difference between these two types at practical importance Camphagographoteny which comes into consideration in the treatment w cardiograms and benish stenores, cus be done in cases of the second type without mobilization if the ersopheges is sufficiently long and rests on the ma phreem, as the anastomoule is made with the corpor of the stomach. It may be done althout mobile ther also is cases of the first type if the anastement is made with the fundos of the stomach. In the presence of an incisure of an artermediate type, that th an angle of from 30 to 30 degrees, was the popularotomy is technically impossible mucosa the boundary between the abdominal por floo of the croopbagus and the storach is dartactly rielle. Even in the fetus it is evidenced by an k regular has o car long

The artered mptly of the lover thereofe expression of the property of the lover thereofe the actively and posterior manufactural procession of the processio

thence to the portal vein. In portal stasis (hepatic cirrhosis) there are varicose dilatations which may lead to fatal hæmorrhage during mobilization. Attention is called also to the very disturbing group of lymph nodes in the cardia. The regional lymph nodes for the cervical and thoracic exophagus are the posterior bronchial and mediastinal glands.

The relation of the lower thoracic portion to the two pleural folds is also of importance in mobilization. The right mediastinal pleural fold hies at the level of the seventh and eighth dorsal vertebræ immediately on their dorsolateral surface. At the level of the eleventh dorsal vertebra it extends not only to the side but also onto the anterior surface. The left posterior mediastinal pleural fold comes into contact with the esophagus for only a very short distance, somewhat above the esophageal hiatus, and at the level of the eighth to the eleventh dorsal vertebræ it extends over the esophagus.

In the hiatus the left vagus hes on the anterior surface and the right vagus on the posterior surface. In the abdominal portion of the esophagus and the cardia Herzberg found two types of innervation of the anterior surface by the left vagus trunk. In one there was a rich network of branches, whereas in the other there were only three branches from the main trunk and the cardia appeared to be devoid of nerves. In vagotomy it is of great importance whether the site of division of the vagus is unusually high or low, as is frequently the case. Division below the site of division will be unsuccessful. The right vagus innervates the posterior surface with only about one-third of its fibers. The majority of its fibers course to the right semilunar ganglion.

ever, because of the two or three large communicating branches in the thoracic portion of the esophagus, it is certain that both surfaces of the abdominal portion of the esophagus and the cardia are innervated by both vagus trunks. The sympathetic supplies the abdominal portion and cardia chiefly through the left gastric, the celiac, and the left phrenic arteries. It is not certain whether there are communicating branches between the vagus and sympathetic.

The cardia is the inlet of the esophagus into the stomach It is intraperitoneal. It is immobile, not changing its position even in gastroptosis. According to some investigators, it is fixed laterally by the hepatogastric and phrenicogastric ligaments Honever, there is a difference of opinion concerning this although it is of importance in operative procedures Herzberg believes that only the constantly excentric position is nearer the anterior abdominal wall According to Hacker, the cardia is usually at the level of the tenth or eleventh dorsal vertebra Maxi movic found that in the horizontal position of the stomach it is at the level of the eleventh dorsal vertebra, from 3 to 5 cm to the left of the midline and in the vertical position, at the level of the tenth dorsal vertebra In general, its position depends upon the form of the lower thoracic aperture. In persons with a narrow chest and a feminine type of abdomen it is high, whereas in those with a wide chest and a masculine type of abdomen it is low The mucous membrane of the cardia shows a distinct boundary line between the osophageal and gastric mucous membrane

(FRANZ) LEO VI ZINDIERMAN, M D

#### SURGERY OF THE ABDOMEN

#### ADDOMINAL WALL AND PERITORISM

Desbonnets, G., and Desbonnets, H.: Prevacular Femoral Hernia (La berale crurale prévasculaire) J de chir 914, 44 697

The most frequent type of femoral herals peaces through the west, point in the femoral larges ween. rum, the femoral canal bounded above by Poupart a ligament, laterally by the femoral velo, and medially by Gimbernat's ligament \ariations of this type of bernia include the pectineal, multideverticular and bisscrulated (Cooper's hernis) types. The prevascular femoral herms and the hernis occurring through Gimbernat's beament are rare

In the orcyascular femoral bernia the me name front of the femoral vessels. At its orieng a runs around the entrustric vessels, sometimes medially sometimes laterally, and spreads out in Scarpe a triangle It is therefore located more laterally than the usual femoral herals. This type was first de-

scribed by Arnaand in 168

The predimonling causes of the prevancular femoral herale are found in defects in the fascia transversalia at the orlice where the femoral vessels pass. Accordlne to Patel and Moschcowits, the hernia ce be explained by lacung in the crural scotters. The exciting causes are the usual causes to bich other hernie are tiributed - asing disease pregnancy, jaffammations of the lymph nodes about the femoral veneds at their origin traumatisms, potably the surrical traupuation involved in the reduction of constituted dislocation of the left and deformities such as tilting of the pelvis leading to deviation of the femoral remels and traction on the onfice of exit

The bernus is always a "herura of estaces (hernie de faiblesse) It occurs in ged or debelitated individuals, and is existly associated with an inguinal berms of the same or the other side

The peck of the bernia is always large, admitting out t to four fingers, hereas that of the ordinary from t femoral bertus is small. It is limited medially by Gimbernat ligament or the thick fibrous septum separation the crural infundibulum from the femoral velu, laterally by the thorectineal band, anteriorly by the mid portion of Poupert's ligament, and posterrorly by the femoral vessels. Because of the large neck, symptoms due to strangulation are rare

The treatment of these berme has never been standardized. All of the surgeons encous terus such hernie have improved a procedure hich t the moment seemed to give the best prospects of restor ing the abdominal all Most surgeons have made ertical uncusion over the bernial sa and trans-

verse inciseo over the incises canal

In the operation performed by the authors the inculnal permech is used in order that the six may be resected as high as possible and the neck fired I r from the original origin (Barker's manes er) The incision is made just hove and parallel at Pompart's hypament. This incision empores the in guinal cenal, Cooper's ligament, and the leser oblique and transverse stutcles. Beginning medally the cord is retracted and the lo er border of Poupart hymnest is fixed to Cooper' heamest in series of sutures. Laterally Poupart's benness is sutured to the aponeurosis of the paous mescle. just sufficient muce being left for the reason of the femoral wasels ALBERT F De Grout, M.D.

Gehrks, IL: The Relationship of the Sa-Called Umbilical Admomets to the Aportise Service Claude and Admostrate of the Breat (De Benchungen der sognanneten Vabeledranue st det apskrinen Sch eindrienen und zur Admillenb ret cer ace to h that f doch (emmald who

The anthor examined microscopically sa un billical t mor the size of a chestnot bick occurred in women eighty-pine years of age grew to this size in period of six months, and as removed singlesly At operation, no intra-abdominal complications were found (metastasis from an latrapentased) carranoma had been suspected). The petrest ded sine months later of paramonia. Autopay was not door

On microscopic study gland ducts with wide lumins and others with papilla-shaped tierations sere found in the center of the tumor is the peripheral portion the gland ducts - ere considerably The epithelium varied from cyhadrocal to fist cubical as in large crats, but, in addition, strati fied cortical tells are found Central and peopleral portions of the glands were embedded in my zona beer tenue which also showed mores staining Tenant the periphery a continuous transition late groups of rucat glands was demonstrable. The rucat giants

were of the so-called apocrine type.

In agreement with Schiefferdecker, the author defines porrine sweat glands as recet glands in Mrs the secreting epithelram gives off part of its red bodies in its secretion. In this respect these glash are similar t the mammary glands I contract to the aprocrime sweat glands are the autorious sweat glands in the human body which are of an eccentic nature, that is, sweat glands from which excertion occurs likeut partial loss of the cell components

the male, the specifies sweat glands are to be found only in the azille and the arcola of the my ples, bereas in the semale they are destributed much more klely being found in the arille the arcole of the emples, the polic region, and the laws part of the abdominal skin below the unbilices They re considered recessory sexual plands and they participate in the menstrual cycle As the occurrence of apocrine sweat glands in the region of the female umbilicus has been established, the development of the described tumor from these glands was probably entirely spontaneous, especially as this disease, called "umbilical adenofibrosis, occurs only in females The change of the connective tissue into myxomatous tissue corresponds exactly to the changes occurring in the mammary glands during the menstrual cycle At any rate, the assumption that the tumors have their origin in apocrine sweat glands is much more plausible than the assumption that the cystic tubes are so-called heterotopic endometrioid proliferations and the tumors are formed from peritoneal endothelium Moreover, there are other noteworthy similarities between adenofibrosis of the umbilicus and fibromatosis of the mammary glands

(MAN BUDDE) LOUIS NEUWELT M D

Fibroma of the Anterior Abdominal Repetto, E Wall (Fibroma della parete addominale anteriore) Policlin, Rome, 1934, 41 sez chir 564

Fibromata of the antenor abdominal wall have been called "desmoids" Although over 1,000 cases of these tumors have been reported in the literature, the author is led to report another case because of

the uncertainty of the etiology

The author's patient was a woman thirty years of age who had first noticed a tumor the size of a pigeon's egg in the right lower quadrant of the abdominal wall about eight months before she came for examination The neoplasm was painless and caused no subjective disturbances During the eight months since its discovery it had gradually Physical examination revealed increased in size an ovoid tumor about the diameter of the index finger and about 6 cm long between the anterosuperior spine of the ilium and the umbilicus The mass was fibrous, hard, moderately fixed, and not tender Its surface was smooth When the abdominal muscles were contracted it seemed to be situated behind the muscle planes Pelvic examination was negative, as was also the cutaneous test for tuberculosis

At operation, the tumor was found between the peritoneum and the muscles It was adherent to the transversalis close to the margin of the rectus sheath It was removed with the adherent muscle

It measured about 5 by 2 cm and was well encapsulated except in one region where it was continuous with some muscle fibers. It cut with some resistance In places the surfaces made by cutting seemed to show a fascicular structure whereas in other places the surfaces appeared plexiform. Their appearance was uniformly that of mother of pearl No cystic areas or areas of degeneration were noted

Microscopic examination revealed several characteristic features. In the central zone the bundles of connective tissue passed in varying directions, thus accounting for the fascicular or plexiform appearance noted on macroscopic examination. The blood sup-

ply was poor, consisting of only small vessels In the vicinity of many of the vessels there were many small cell bodies with little protoplasm and large, round, deeply staining nuclei. In some zones there was an intense perivascular infiltration to the point where the cells were densely accumulated in groups In some regions these groups were surrounded by normal connective tissue and suggested circumscribed microscopic abscesses In the peripheral zone of the tumor there was a gradual transition from the connective tissue of the neoplasm to the striated muscle which was attached at this point. In this region, also, areas of perivascular infiltration were noted

In the discussion, Repetto states that fibromata of the abdominal wall occur almost exclusively in females They are most common between the ages of twenty-five and thirty-five years, but may appear at any age Multiple tumors have been found in only 3 per cent of the cases The tumor is usually located in the lower abdomen and on the right side The ovoid form is characteristic. As a rule the neoplasms vary in size from that of an egg to that of a small orange, but there are reports of such tumors weighing 17 kgm. The tumor usually seems to originate from the sheath of the muscles of the abdominal wall, especially the rectus sheath Frequently it is attached to the bone nearby, the proper toneal fat, or the pentoneum, and rarely with the skin and subcutaneous fat

According to the old theories tumors of this type had their origin in (1) the osteoperiosteal tissue, (2) the perimuscular fat, (3) the internal genitals, (4) trauma, or (5) dysfunction of some of the endocrine glands The author believes that the neoplasm in his case was due to trauma to the anterior abdominal wall resulting from gradual distention and tearing of the muscles in four pregnancies He states that in a few cases organisms may gain access to the blood stream during pregnancy and the puerpenum and produce a true bacıllæmia Some of these organisms may lodge in the regions where the muscles and aponeuroses are lacerated and cause the formation of microscopic abscesses stimulating the production of new connective tissue A Louis Rosi, M D

Nordlund So-Called Primary Cryptogenetic or Metastatic Streptococcic Peritonitis (Ueber die sog primaere kryptogenetische oder metastatische Streptolokkenperitonitis) Ann Acad scientiarum fennica, 1933, 38 Series A, No 1

Streptococcic pentonitis should be considered, almost without exception, as the first and usually the only metastasis of a general sepsis This complication has such an unfavorable effect on the character of the sepsis, which is dangerous even in its absence, that death results quickly and the sepsis rarely has time to form other metastases

To establish the diagnosis, puncture and bacteriological examination of the punctate should be done

In cases in which the course is stormy from the beginning, operation is useless. In milder cases operation may be tried if it can be done in the early stages of the dresse. When the disencels is more tain, the earliest possible laparotomy is Indicated.

Streptococcic peritonitie occurs in both edults and children. Of the fifty-seven cases reviewed by the anthor, forty-seven were those of adults. The condition is as frequent in boys as in girls, but is twice as frequent in women as in men. In 40 per cent of the reviewed cases it was preceded by sore throat. and in 19 per cent by coryea, a cough, or some other general infection. Other stickopeal factors are poermonia, scarlatine, utility media, and marillary simulity. In o per cost of the reviewed cases the peritoritie was preceded by distribute.

As a rule the course of the disease is stormy from

the outset. In only 23 per cont of the cases reviewed was it mild at first. A characteristic feature is an initially high fever revealed especially by the rectal temperature. The anilary temperature frequently gives no ladiention of the temperature of the body as a whole. As a rule the circulatory organs are anformly markedly affected from the beginning and the circulation is seriously impaired. Occasionally strentococci have been found in the blood Disturbances of consciousness occur in as per cost of the cases. In some cases there is euphoria. Frequently the condition is markedly sente.

Among the most important symptoms is abdominal pain which develops almost without exception In the beelsmine of the condition and immediately becomes more severe and diffuse or at first is local and later becomes diffuse Vomiting is an early eign in 50 per cent of the cases. It sometimes begins soon after the onset of the disease. As a rule t is continuous. Often typical peritomatic vomiting does not been util the late stages. The durrhors which is considered especially characteristic of peritonitis occurred in only half of the reviewed cases. It was an early sign in herely one-third of the cases in a high it developed. Onlie often there as constipution in the beginning of the cheese. In a few cases constipation developed later. The abdomen is usually distended. As rule there is generalized abdominal tenderness Localized tenderness is rare. Muscular rigidity is rarely absent, but varies is intensity in different cases and at different times in the same case In at per cent of the reviewed cases the urine contained albumus, and in one case there was definite pephritis. It is per cent supportative metastaxes were found

The seroes is reddesed and covered by deposits of fibrin. The abdomes contains credate which in the beganning as clear but soon becomes cloudy peroporalent, or purelent and shows foccule of fibrin In about per cent of the reviewed cases alight recent changes ere demonstrable in the appendix, and in a per cent in the adness. These were not the cause, but the results, of the disease

In the cases is which operation was done the mortality was 94 per cent and in those is which poeration was not done t was on per cent

LOCH NECESTAL M D

GASTRO-INTESTINAL TRACT Nogers, G. The Nature of the Healing of Sergical Wounds of the Stomach in Relation to the Technique of Seture Employed (Salle modelts dictratriumations of the ferris thirmpube of the stemato in rapporto alla inchesca di notara impengata) Arch Hal di cher 034, 36

The author first reviews the postoperative complications which may develop from faulty automer in gastro intestinal surgery cities the literature Among these are pentualtis from infection enterior through the suture has, pubnonary complications. hemorrhage, peptic aleer and imperfect functioning of the stome. The incidence of pulmosery care olications reported in the interstant ranges from 6 of to at per tent. The frequent presence in the pleural cavity of the organisms found at the site of operation superate harmatorenous transmission of the infertion. Nogara emphasizes that pulmonary complicathose occur has often when errort care is taken in the technique of the operation, but are favored by the anesthetic. He emphasizes also the importance of careful bandling of the timues to prevent the for mation of embols which may carry miscilos with them Hamorrham may be controlled by accurate saturing The development of alcoration at the sits of the stoms is isvored by imperiest apposition of the mocose and all other factors which migricity with wound healing. Imperient functioning of the operative stome is sumifested by the usual signs of gustric obstruction-foul breath, epigastric chata tion, and gratric distress which receive periodical genicic lavage. The suturing is coundered responsible even for temporary malfenetion of the anaitomous das to local erdena

Because of the importance of these considertions ther endertook an experimental andy of methods of auturies. He reports his findings and reviews the experimental work of others II regards as particularly important the retent work of Marts lof and Section who lavestigated seven methods of gastro-intestmal seturing. Martzloff and Suckow found that the method of Habited is followed by the most rapid healing and the levest complexious, that seture of the wall in three layers is not necesmary and that healing of the procuss membrane is not retarded by this method

Most gastro-enterestomy wounds are entered by the Connell method or some variation thereof. One variation is the lockstitch method White the Connell method and its modifications bring the mucrous membrane together and favor harmontain, they are frequently followed by olcerations along the actors line as the approximation of the tiesues is not exact, the auture itself causes some countric tion which interferes with the autrition of the mycous membrane, and the sources which pess through the cuties wall of the intestine greatly increase the danger of peritonitis. The author believes that if the layers were sutured separately the difficulties would be avoided

In the restoration of anatomical continuity the single interrupted sutures have proved most successful and least damaging to the tissues because of the excess of mucosa in relation to the underlying muscularis which contracts, an empty space is left between the stitches Delitala attempted to overcome this defect by using interrupted sutures in the mucous membrane and continuous sutures in the submucosa and muscle However, because of the associated tissue damage and the time required for a suture of this type, his method was not con sidered ideal It was therefore necessary to continue efforts to devise a suture which would be simple and extramucosal and which would evert the mucous membrane and arrest bleeding The Lembert continuous seromuscular suture is of this type, but requires separate ligation of the bleeding points

Also satisfactor, in some respects is the method of approximating the separate layers as they are divided with a continuous suture excluding the submucosa. However, while wounds so sutured heal well, healing requires considerable time, sepa rate hemostasis is required, some of the bleeding points are apt to be missed, an unnecessary amount of material is introduced into the wound, and

enterostomy clamps cannot be used

A suture which is extramucosal and inverting, simple, certain, and rapidly executed is that of Donati The technique of this suture is as follows

The surgeon standing in front of, and parallel with, the wound, begins the suture in the lower angle of the wound, introducing the needle into the submucosa just at the level of the mucosa, passing it through the submucosa and muscularis, and bringing it out from the serosa just proximal to the outer edge of the wound He then introduces it a few millimeters from the opposite edge, directs it from the serosa obliquely downward from right to left through the serous and muscular coats to the sub mucosa which the suture is to include completely passes it along the external wall of the mucosa, and brings it out near the cut edge of the mucosa. The suture is then pulled up and a knot is made knot is buried and the sutured edges are inverted so as to bring the serous edges into apposition Each statch is made in the same way and the suture from each is drawn up Perfect approximation of the serosa results To tighten the suture and hold the stitch firmly, Donati uses traction on the suture and exerts pressure with a gauze pad on the walls which

The Donati suture is designed to take up all of he is drawing together the submucous layer to the edge of the cut mucosa Unless this is accomplished good hæmostasis is not obtained and loose edges which retard healing are left After the completion of this suture an inter rupted seromuscular suture of silk or fine linen is introduced. Catgut is usually employed for the buried inverting suture In the experimental wounds described this was apparently the method employed as Nogara says that the catgut disappeared slightly sooner than the silk or linen and that both of them

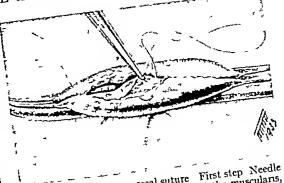


Fig 1 Donati extramucosal suture First step Needle picking up the submucosa with its veins, the muscularis, and the serosa of one side

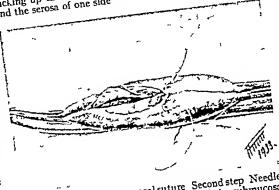


Fig 2 Donati extramucosal suture Second step Needle picking up the serosa, the muscularis, and the submucosa and its veins on the other side.

were still visible on the fifteenth day At the present time Donati applies his suture only to the anterior

The advantages of the Donati suture may be wall of the anastomosis

1 Accurate apposition of the two lips of the insummarized as follows cision is obtained as the stitch coming from the muscularis takes in all of the submucosa up to the cut edge of the mucosa and when it is tightened the mucosa and muscle layers are brought to the same level No matter what the degree of muscular contraction or the amount of excess mucosa the apposition is accurate

2 Hæmostasis is always good as the vessels which pass through the submucosa are securely and tightly held, being totally included in the suture

3 An enterostomy clamp may be used to prevent the invasion of septic material into the operative

field and to produce hæmostasis The purpose of this article is to report the comparative results in surgical wounds of the stomach sutured by the method of Connell, a continuous lockstitch, and the method of Donati

Nine dogs were operated upon after twelve hours of fasting The operation was performed under local anesthesia supplemented with morphies. Three bothcose were note on the asterior series of the stomach and each was closed by methods of surrounding the control of the stomach and each was closed by methods of surrounding the control of the series of the control of the series of the control of the series of the control distributions. Three of the degree killed sites for any state of the degree was killed sites for days, and macroscopic and microscopic states when the series of the series

On the fifth day after the acturing the line of the crtramucosal acture was always regular with per fect apposition of the mucosa and other layers, whereas the line of the Coussell and tocksutch satures was irregular and showed areas of necrosis

and electrical The irregularity as more marked following the Ceanell seture than following the lockstitch seture. The microscopic fishings in the three seture lines after five days are summarized in Table I.

On the eighth day macroscopic exemination above of the Bonath arture line to be regular and free from ulceration, whereas in the wounds surgered the the Council and continuous lockstitch methods there were evidences of ulceration. The sucreacopic

findings are shown in Table II

On the fifteenth day macroscopic examination
revealed to ulceration along the sature lines and no
local congestion. The findings of interescopic
examination are shown in Table III.

TABLE I MICEOGRAPHIC FINDINGS IN COTTUDE I DICE ON COPTUDATE

TABLE I MICEOSCOPIC FIRDINGS IN SUTURE LINES ON FIFTH DAY			
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TABLE II MICROSCOPIC FINDINGS IN STUTURE LINES ON EXHITII DAY

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foliane.	Account connector panel reporter you of the temporary marries bear propagator sufficiency of the section	Beginning countries times represent the set of the sementies become far- times unknowning selferation of the people according to the second selection.	African of manufact these registry: time. Very lattic subsecutions of the minutes.
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TABLE III MICROSCOPIC FINDINGS IN SUTURE LINES ON FIFTEENTH DAY

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CORRELITE | ELLING, M D

Zanardl, F The So-Called Enterochromaffin Gland (Sulla cosidetta ghiandola enterocromaffine) Arch

The term "enterochromaffin gland" is applied to a particular type of cell scattered in the mucosa a particular type of cen statisticul in the mucoathroughout the intestinal tube of man and vertebrates and characterized by the presence in the cellular protoplasm of granules which are stained selectively by chromium salts and are impregnable by

The morphology of these cells 15 well settled, but their origin and function are not thoroughly understood. Their climical significance lies in their rôle in the formation of carcinoid tumors and neuromata

The author reviews the literature concerning the morphology and differentiation of these cells from and the repair of mucosa such similar cells as the cells of the adrenal medulla

According to one theory, these cells represent and pigment cells containing melanin epithelial cells with an external secretory function The author reviews the anatomical and experimental findings which seem to support this hypothesis According to another theory, these cells are cells of nerve origin (like the cells of the adrenal medulla) which have migrated to the intestinal mucosa, but retain their power of internal secretion This theory seems to have wider acceptance than the first one. The secretion has been compared to both adrenalin and secretin—to the latter, on the basis of the large number of chromargentatin cells in the duodenum of certain animals According to a third theory, the cells represent mobile elements of the blood or connective tissue. Some observers claim to have followed them from a connective tissue origin to

The significance of the chromargentaffin cells in pathological conditions of human tissues is not understood. The cells are probably related most intiepithelium. mately to carcinoids of the appendix vermiformis

Zanardi studied the distribution of these cells in They may play a role also in gastritis the various segments of the gastro-intestinal tract of man and animals, the affect of digestion on their number and distribution, their rôle in the regeneraunnot and distribution, then fore in the regenerarence and distribution in the vermiform appendix

In his study of the regenerating mucosa in pathological changes in the stomach such as ulcers, inchanged by disease flammations, and tumors, it was impossible to demonstrate a connective tissue origin of the cells The chromargentaffin cells did not seem to take an active part in the regeneration as they were not present in the regenerating tissue However, they were numerous in the zone surrounding the area of destruction and therefore may have had an indirect action In specimens of chronic appendictis many large chromaffin cells were noted and at times gave the appearance of an intranervous migration suggesting that they may be of ganglionic origin.

Lucarelli, G The Suprarenals in Acute Intestinai Occlusion (Le surrenali nell'occlusione intestinale

The author describes experiments in which he brought about acute intestinal occlusion in male guiorought about acute intestinat occursion in mate gui-nea pigs, in some at a high level and in others at a low level, and after the death of the animals made histological examinations of the suprarenal glands All of the animals died with the same symptoms, but those with high occlusion died after from twelve to twenty-five hours, whereas those with low occlusion

survived for minety-two hours

The cortex of the suprarenals showed hyperæmia, hamorrhage, degenerative changes, and a decrease in and irregular distribution of the lipoid content The medulla showed hyperæmia, a reduction of the protoplasm, a decrease in the size of the nuclei of the protopusm, a accrease in the intensity of the staining cells, and a decrease in the intensity of the staining reaction for chromafin. The adrenalin granules were greatly reduced in number and those that were greatly reduced in number and those that remained were irregularly distributed. The changes in the cortex were circulators and degenerative. In the medulla the greater part of the adrenalin had been eliminated and the capacity for producing adrenalin had probably been paralyzed. As the changes were very much like those seen in

tone infectious diseases, the author concludes that they were caused by the toxins produced by the intestinal occlusion

Piergrossi, A. Jr Duodenal Diverticula (Diverticula

duodenali) Rediol med , 1934, 21 875

The author's discussion is based on a review of the literature and cases of duodenal diverticula he

Piergrossi divides duodenal diverticula into two groups, the true composed of all layers of the duodenum (although eventually the muscular layer is has observed. rarely normal, being thinned out by distention of the diverticulum) and the false, composed of only the internal layer of the duodenam. In the process of development the latter may result from the or development the latter may result from the former Diverticula occurring on the conventy of the duodenal loop are rare. Those developing on the concavity occur in several positions such as the lateral research of the duodenal bulb about the concavity occur in several positions. lateral recess of the duodenal bulb, about the ampulla of Vater, in the concavity of the inferior knee, and at the duodenojejunal angle.

Neither the theory that the diverticula are congenital nor the theory that they are acquired 15 applicable to all cases Against the theory of a conapplication to an ease are that the diverticula rarely gental origin is the fact that the diverticula rarely become manifest before the second half of life. In favor of this theory is the fact that in most cases there is no pathological lesson which could conceiv ably result in diverticula formation, the frequent association of the diverticula with congenital anomalies, the fact that diverticula of the duodenum have been observed in the newborn, the not unusual occurrence of pancreatic rests in the walls of the diverticula, indicating a disturbance in embryonic development, the fact that the portion of the human

embryo which subsequently forms the duodensor is particularly active from the standpoint of development in the young embryo from 7 to 2 mm in length and the fact that there is abundant oncor twinty for an arrest or disturbance of development. abnormal cellular inclusions, and imperfect involution Some observers claim that the concenital origin may be explained on an evolutionary hads In support of this theory they cite the di erticula formation occurring pormally in the wooer intention of certain fish

according to the theory of an accorded origin. pulsion or traction are caused a agenty licekening of the bowel all and increased pressure in the lumen are assumed. The cakening of the all of the duodenum is generally attributed t the presence of aberrant pancrearic tissue I some instances and to abnormal penetration of the boxel well by blood venuels in others Scar these formation due to builed alcers is also believed to be factor. The astream in pressure in the bowel access, while not considered essential in the genesis of these diverti-

commercia custotica in the guessia of these diverti-cial, is regarded as very important.

Traction di critcula are rure. The tractio may be caused by congestial peritoneal hands or by ad-besions recondary to such factors as alcers, cholecys-tilts, appendicitis, or trauma.

Diverticula re explicit to nathological changes The latter are leitleted by stagnation of the intertitud contents or the presence of foreign bodies in their jurgies. The development of inflammatory changes is simila to that of appendicitis. Perfora changes is similar to task or appearance a seriors, thou of a diverticula may result in the formation of a deadenal fistuit. The presence of an ulter may lead to intestinal hierostrapy. The frequent asso-ciation of a diverticulam of the first portion of the duodennia with duodenal alcer raises the question as to which is the primary learns.
In description about the ampulia of later and

the inferior kace of the duodesture the frequently associated bilitry and procreatic lessons are due to a combination of stesse of secretion and infection a continuous or gene or acception and meetion and, is some cases, to a incrementar spharter of Odds permitting regargitation. In sense of his own cases of deoderal dwertchals the author has found continuous pricel evidence of throuse appendiction in the symptoms of deoderal diverticula vary a

meltine disgrams can be made only by 1-ray exam instant In the majority of cases symptoms are first manufested during the fifth or sixth decade of ness manufesco usang use mis or sario occaso es file. The average age at Mich they first occur is filty six years. Yot all doodenal diverticule pro-duce symptoms. The symptoms are the to learn matory [ actional, or organic lesions produced by the diverticulum on neighboring organs. Hence some patients present symptoms of dyspepers (py rouls, names, a sense ! fullness) others an ker picture and still others, symptoms of pylone ate nock, gill bladder doorse, procreatic doese (pun, steatorrbres, diarrbres, and orcheria) or appendicate

Therefore I the presence of such symptoms the roentgrackegist must bear the possibility of duo-

densil diverticulum is mind. The \(\lambda\)-ray skadow of diverticulum has three fundamental characteristics. constancy under pressure, mobility on pulpation and persistence (sometimes for days) after the mula stream of barium has pessed on. However while such characteristics are would of aid in the due neals, they lose their importance in certain cases and consequently must be interpreted like care. The author describes la detail aristions in the (roical t-my findings and discusses the conditions giving the to distorted shadows or absence of shadows. The greatest difficulty is encountered in cut blobbing the exact position of the lesion. The site of the discribedian is of importance in surpical latencetion

The author next discusses the diagnostic difficulties encountered in various types of directionia, considering each group in detail and citing cases

exemplifying each. The prognosis and treatment depend on the com-

placations provoked I neighboring to distant or gams Medical treatment is, of course purely symptomatic. Surgical treatment is difficult. Often it is difficult even t find the directiculum. The author amploys various surgical procedures, dependiar on the location of the de criticalars. I some cases he performs a simple gestro-exterostomy to place the diverticulum at rest, in others, exclude or invagination of the diverticalum plus gameenterestores and others, reserving of the duodenum

T Biggs Jone HD

Dall'Acros, V. and Valuerist, R. The Ravities Appearance of the Nurseal Macros of the Colon (Lapete radiologics della ancton normals del colon) Entitle and 334, 765.

The first signs of pathological change can be detexted by examining the mocous membrane rehel of hollow organs as the earliest changes enterally occur on the surface of the mucous membrane. Such an examination is used by distributing a time layer of contrast medium over the inner surface of the organ. In the case of the colon a careful technique is necessary to obtain uniform destribution of the contrast medium. The patient is prepared by giving obve oil as a purpoit e for one or t o days before the examination Saline solutions are too irritating The thet should be chiefly liquid. The episque coems is precised by one or its desiring coems. of sum water, the last one being given one or two bours before the opaque rorms to allow time for absorption of all of the water Lither barism or colloidal therium preparations may be used as tratrust media. T. prevent spasso and ever-expansion the field is allowed to flow in under low present If functional spasons occur t the sphracters they may be evertoons by changing the putient a postion or by massage As soon as the circum is alled the enema is topped. The cercurs should not be rer-distracted as otherwise the last loop of the Grass may all and interiere with the clearness of the pic tures. Sometimes retrograde filling of the prendix



takes place II desired, this can be brought about by light massage over the cæcal region The patient is first examined in a prone and then in a supine position All the segments of the colon are examined in all projections so as to obtain a three dimension image For a special study of the rectum and sig mod the patient may be examined standing For examination with the walls of the intestine collapsed, only from 250 to 500 c.cm of contrast liquid are necessary. This amount fills the lumen without distance the contrast liquid are tending the walls However it is advisable to make an examination first with the intestine distended in order to study the tonus distensability, and elas ticity of the walls and any obstacles to distention The colon should then be examined again after evacuation of the opaque enema Insufflation of gas may be useful as a supplementary method for the examination of stenoses or serious injuries of the walls This generally obliterates the mucous membrane relief, but sbows cancer nodules and polyps

A general roentgenogram of the whole colon is first taken and special segments are then examined The use of the Potter-Bucky diaphragm is invery clearly dispensable in roentgenography of the large intes-

In the normal living subject the mucous membrane presents a complicated network of folds which are not fixed and static, but change constantly, tine adapting themselves to functional requirements They are dependent to only a very limited degree on contraction of the muscularis propria This active

"Braided ribbon" appearance of the colonic rig 2 Dianueu moon appearance of the left colonic mucosa in a case of mucous colic Ptosis of the left colonic flexure Calcified cysts of the liver

autoplastic capacity of the mucosa is a very important factor in digestion and the propulsion of the faces along the intestinal tract. It makes the mucosa a definite organ with a specific function co-

ordinate with that of the muscle layer The size, number, and arrangement of the folds are affected by all the functional changes of digestion including turger, secretion, and vascularization

of the mucosa. Under normal conditions the folds can be made to flatten out and disappear by external pressure Under pathological conditions they may become rigid and inelastic. In the transition stage between the rest and movement the mucosa presents an arborescent appearance. The simplest folds are the longitudinal type In the presence of this type the mucous surface is reduced and there is only

The longitudinal folds push the intestinal contents forward They are seen chiefly in the descending slight absorption colon and sigmoid and at the contraction rings The transverse and arborescent folds are more complex and are seen in segments with greater functional activity such as the cæcum and ascending and transverse colons In the rectum the folds are arranged Their caliber is larger than in other longitudinally

Knothe describes as physiological a type of relief which is rarely seen in normal subjects. It is the segments of the colon same as that observed in the so-called irritative condation, but unlike the latter it persists only for a few seconds and is then transformed into one of the other types Knothe believes that it is due to an energetic contraction of the whole musculature of the large intention as a stimulum to defecation. It

is called the contraction type.

In increased tooms of the vagus whether spontaneous or brought about by drug, there is a complicated design which Knothe calls the "irritative or "brailide of holoso type According to Gilbert and Kadruka, bowerer the braided ribbon type is only a support of the complete of the comcatagnated neuromacular mone and not by befarmation of the enema by preceded by general contraction of the enema by preceded by general contraction of the enemater to the brainite type. When this picture is presented a careful enumias picture very much his that of the braining type. When this picture is presented a careful enumias to the picture in the complete of the contracting braining and the contracting braining of the facture of the color. Accord Gom Monaca M D

Weyill, L. B., and Wallson, H L. Acuts Appendicitis, Educarda II J 934 4 337

This article is a statistical analysis of 8,000 cases of acute appendicitis treated during the ten-year period from 193 t 193 at the Royal Indemsty the Royal Hospital for Sick Children, and the Leith Hospital, Edmburgh

The athors and that the number of cases of acute poendicitis admitted to bomitals has increased considerably during the past few years, but that the number requiring drains so has been steadily decreasing. While the mortality has probably fallen alightly during the past few years, it has remained constant during the past four years. The disease is more frequent and more senous in males than in females The average age of greatest incidence is about observed team years. The verage general mortality is about 4 5 per cent The mortality varies from per cent in simple uncomplicated cases to between ay and ay ner cent in cases of frank general perstonitis. Cases are now admitted to hometals somewhat earlier than formerly. The death rat increases with the dura tion of the filness. Surty five per cent of the latalities occur within one week and 82 per cent within tw weeks. The mortality is definitely higher at the extremes of life. This is in agreement with the observation that the complicated cases are more common at these age periods. Of the complications, the respiratory diseases and postoperative obstruction have the highest mortality

Joseph W. Nurcus, M.D.

Gatailler, J., and Wades, A. The Pathogeometr and Treatment of Frailiterating and Seanouing Procedure (Fathag via et trainment dan recent prediffrates et stimmentum). J. Sc. Cher., 534, 43 534.

The thors divide cases of proctitis into () those with narrowing of the rectal lumines account peaked by electration, fatalir and abscess () those ith similar changes accompanied by elephantized of the excellent leds analors, or perinars (j) those

of proliferating proctitis before the stage of rectal stenous: and (4) those of rectal narrowing before the development of the lesions of proctitis.

Of 331 cases in which an relological study was made, the Wassermann reschool was positive in only 33 and of 34 cases in which correlate such the forecomes was made, that correlate an is found the producers was made, that correlates and among the possible in constitution in the considered among the possible in constantily found in the intervalved region; the authors call attention to the restrivalved region; the authors call attention to the restrivalved region; the surface call profits in smootons for the investment of inhermical promiting in anotons for the investment of inhermicals. Discontinuous theretally expected office are pathogenic factors in alternal to the control of the pathogenic factors in address the pathogenic factors in the considered in the control of the con-

Of an exact of problemating proclids before the stage of diminution of the homen, the Frei resction was positives in 17 questionable in 2, and negative in 3. Of ass cases with actual standar, it as positive

in sys, regative in 15, and questionable in 9. The authors present statistics based on 19 there in which the rectum was removed and 2 in who colonisory as slowe. Of the former operative tests control in 16, recurrence of the stricture in 17, incurrence of a supportative provide in 9 improvement in 7 and care in which the Trie into because the 18 of the 18 in the 18 in the strate.

occative to only a. In considering the pethogenesis of recurrences, the authors point out that the lesion is a perfection rather than lesson likes the rectal macous, and that therefore the so-called recurrence following emportation is in reality continuation of the process. They state that in cases of problemating processes the lexion should be tracked by general and specific therapy. For cases of stenoods methanical dilutation is t. be condemned as painful and dangerous Disthermy will refleve the structie and reduce the accretions. However, this treatment also may be associated with danger. The authors report may or associated with danger the suitors report is fatalities from pertinoitle and pelegmonous gar-grees following its one. The value of irradiation is disputed. The thors recommend colorous for amelioration of the symptoms, but emphasize that It will not rrest the progress of the descare They state that hen complications are present, colorious abould always be done and should be supplemented by such additional measures (drainage of bacteers, debridement) as the complications demand in general the treatment of the disease should consist of conservative measures ith the possible addition WILLIAM C BEER, M D of colorioms

Bowleg, H. II and Fricks, R. E. Primary Rectal Carcinomas under Radiation Treatment. A Statistical Review of SM Cases. Am J. Resigued 924. J. 525

The authors peasant at tistical data based on 500 cases of carefnona of the asus, review, and retinighed seen early in their experience with radium and routiges therapy at the Ms. Clinic. The

surgical and radiotherapeutic techniques employed in these cases were representative of the time

On the basis of their findings the authors state, that in cases of carcinoma of the rectum, anus, and rectosigmoid surgical intervention is most important and should be the first consideration. In some cases colostomy is essential It should always be considcred as a means of establishing a permanent or In selected cases, adequate irradiation treatment can be applied without colostomy In every case an attempt should be made consistency in every case an attempt should be made to estimate the grade of malignancy and then to decide on the plan of attack Therapeutic irradiation, especially radium therapy, has a distinct place in the treatment of carcinoma of the rectum, anus, and rectosigmoid Pre-operative radium therapy should receive special consideration and, when employed, should be followed by a period sufficiently long, probably from eight to twelve weeks, before surgical intervention is attempted Radium therapy is of value also as a palhative procedure in cases of moperable and recurring lesions at least one wellplanned radium treatment should be given degree of palliation varies, but nearly all patients will be benefited somewhat Radium therapy as a postoperative measure has a limited field of usefulness, but should be employed at least for all lesions of a high grade of malignancy

Roentgen therapy is of value, and with the in creased voltage of the present-day installations, should become of greater value, especially in cases of lesions of the higher grades of malignancy

Since rectal polyps may undergo carcinomatous degeneration, adequate treatment or removal of these lesions may be classed as a procedure to prevent the occurrence of carcinoma of the rectum In conclusion the authors state that the combina-

tion of surgery, irradiation, and medical treatment should greatly reduce the surgical mortality and improve the immediate and late results

### Anal Achalasia and Megacolon Guy's Hosp Rep, Lond, 1934, 84 317

The author has seen thirty-two cases of megacolon in private practice and eight in hospital practice The condition is as common in adults as in children, but in adults it is found with about equal frequency in the two sexes whereas in children it occurs almost most exclusively in boys Although Hurst formerly believed that there is a sphincter at the pelvirectal flexure, he is now convinced that no such structure He states that under normal conditions faces accumulate in the lower end of the pelvic colon and enter the rectum only immediately before defacation. Like the rest of the alimentary tract, the pelvic colon, the rectum, and the internal sphinc ter of the anus have a double nerve supply sympathetic from the second, third, and fourth lumbar gangha and paras mpathetic from the second, third, and fourth sacral roots helicing that the sacral roots believes that the primary factor in the pathogenesis is usually achalasia of the sphincter ani—failure of

the sphincter relaxation which normally occurs with the arrival of peristaltic waves on their passage down the pelvic colon and rectum in the act of defacation The attempt to overcome the resistance offered by the closed anal sphincter produces increased penstaltic activity and gradual hypertrophy of the walls of the rectum and especially those of the pelvic of the colon The distention of the Pelvic colon results in an increase in its length as well as in its diameter Sooner or later its upper extremity usually reaches \*he left dome of the diaphragm Slight dilatation and hypertrophy are often present in a part or all of the rest of the colon Without doubt, megacolon of the rest of the conout Without the normal balance is caused by a disturbance in the normal balance between the sympathetic and parasympathetic nerve supply to the sphincter The author believes that the disturbance of innervation results in underactivity of the parasympathetic, and that in most cases the parasympathetic deficiency is confined to the fibers supplying the anal spincter If, at the onset of dilatation of the pelvic colon in achalasia of the anal spincter, the fold of mucous membrane at the pelvirectal junction is unusually prominent, the dilatation of the immediately proximal part may exaggerate the kink, producing a secondary obstruction In some cases anal spasm may be associated

In the majority of the cases reviewed the sigmoidoscope could be passed its full length of 12 in without meeting resistance and endoscopic examination with achalasia showed the end of the instrument in the center of

The diaphragm is pushed up by the dilated and elongated pelvic colon, and in young children the abdominal wall is pushed forward. The displacean enormous cavity ment of the left half of the diaphragm into what is normally part of the thoracic cavity simulates eventration of the diaphragm due to maldevelopevenuation of the mapmagni due to manueverop-ment of its musculature, which is relatively less frequent On roentgenological examination of the patient in the erect position before the administration of an opaque meal, the possibility of megacolon is at once suggested by the discovery of eventration of the diaphragm. The unusually high position of of the left dome of the diaphragm presents a striking appearance When a gas-containing cavity is seen under the right as well as under the left dome of the diaphragm the diagnosis of megacolon is certain The exact anatomical condition present can be recognized only with the use of an opaque enema Because of the considerable overlapping of the different segments of the bowel it is essential to watch while the fluid is being run in The Size of the colon after the enema is merely an indication of its disten-The opaque meal is of little diagnostic aid, but may be a valuable corrective of conclusions drawn from the findings made with the opaque The small intestine is always normal, and in most cases there is little or no stasis up to the Megacolon is compatible with good health The end of the iliac colon

author deplores the growing tendency of surgeons

to perform a sympathectomy as soon as the disenone is made. If states that in most cases relief may be given by non-surgical means. It should be remembered that a colon which has been over distended for any length of time remains permanent by over-distended. The chief object in the treatment is to lessen the resistance offered to the passers of faces and gas by the closed nal sphincter This can be done best by the introduction of a conical ebony bough every moraling but after the first attempt to open the bowels. The bough should be pushed in slowly as far as it will go without crusing discomfort and left in position for half an hour When attacks of pale and distention, presumably due to partial volvulus, recur la spite of treatment the passage of a flatus take and, if necessary the administration of morphia and atropine almost always give relief. In some cases the dministration of morpida and atropise may be necessary in addi-tion. Numerous reports of successful sympathec tomy have been published, but it is still too early to say whether the results will be persuspent. The author has not yet seen a case of megacolon in which be has found it necessary to advise sympathectomy but states that he would not healtst to advise the operation if he had case in which sufficient improvement did not follow non-operative treatment WALTER IL NAMES, HD

#### LIVER, GALL BLADDER, PANCREAS, AND SPLEEN

Hampson, A. C.: Jourdice. Precisioner 934, 33

Hampson discusses Jaundice on the bests of McNee's simple classification of the condition into the hemolytic, toxic, infective, and obstructive types II states that a heresa well defined examples of each of these types are frequently encountered, combinations often occur. The value of the van dan Bergh reaction in differentiating two types of billroben is discussed. It is couplished that in every case of panodice in which surgical procedures are doesned expedient great care should be taken be choosing the time for operation. When the jaundice is temperant it is best to operate derrog a rembesion. When liver function is poor I should be improved as much as possible. The phenotiers-ledophthale test is suggested as probably the best enterion of Il evincetion. The chetting time should be excelully studied and any delay should be treated. In hemolytic nundice is which splenectomy may be indicated, transfuson may be of great value BALTER H NAMES, M.D.

Profitmi, F. The Behavior of Calcium in Bene-After Total Exclusion of the Bile (Sol competaments del calcu sole sets dopo derivament totals della bile). A set d chr. 934 3 786

The author reviews the literature and experimental evidence relating to the part played by bile in calcum metabolism, ispord metabolism, and the scid-base equilibriers, calling attention particularly to the changes observed in home by Doven in 1900 and by other investigators subsequently

His then reports the findings of his one study of the effect of extinction of bits on the thesical towastineasts of home. In experiments on ten deep he encluded the his by resection of the his dast and cholerostotomy and at the same these transvert fragment of bose from the tenth held in the chemical soalysis. The intervention was followed after from too to few days by cholic stocks, norreas, their gradually increasing belas, variable mescalar citness, marrassums, and loss of weight. Recongengrams are made at accountly intervals. Details and the state of the state of the conpact of the control of

Comparison of the findings of the chemical analwas of the book removed during the intervention and of bone removed at necropsy revealed a dinimation is the calcium controt. The decrease in the calcium as in direct proportion t the length of the period of survival and was particularly marked in the animals that survived longer than is months The organic matter was increased while the ask was decreased. N gross pathological changes ever found in the sheletes at necropsy. The resulter changes were marked only in the animal that survived one hundred and twenty-six days in this animal there was a deliver hanness throughout the bone shadows. A similar harders was noted in the case of the dog which survived one hundred and fifteen days, but was less pronounced. As brieshgators who noted serious bone lesions and spontaneour fractures observed animals that survived from six to ten menths, the author attributes the aberece of marked bone changes in his animals to their short

Pagitan concludes that complete exclusion of bile deprives the expansion of an essential element, fileturbs the said base belance, lustin the absorption of calcium from the lateriland tract, and causes a process of decalefication. I hope Cara Ravey

Harding, H. E. The Secretion of Macus by the Epithelial Odis of the Gall Bladder and the Experimental Production of Macucals. Sec. J. Juny 1914 5-155

The measus of the gall hadder has single byer of large colorator or pressure it cells through the falsh of varying height according? I she degree of distantion of the organ. Here are no causated differences in the presentance of the organ Tenth, these goods are presentanced to the control of the coloration of the col

These vary greatly in number in mucicarmine linese vary greatly in number in different gall bladders and different parts of the same organ, but are always present in normal tissue It is suggested that they are formed in the

It appears probable that in the production of a mucoeele of the gall hladder in man several factors region of the Golgi hods play a part, viz (1) obstruction, commonly by 1 play a part, viz ousciruction, commonly by testone, (2) absorption of the hile contained in the Stone, (4) ansorption of the fine contained in the vesicle, of its expulsion by a mucous secretion before obstruction is complete, and (3) a mild continued inflammation, probably hacterial but with organisms of a virulence too low to produce a purulent reaction This conclusion agrees with that reported by Illingworth and Dick in 1932

### Short, A.R., and Paul, R.G. Torsion of the Gall Bladder Bril J Surg, 1934, 22 301

The authors report three cases of acute torsion of the gall bladder and give briefly the histories of fifty cases collected from the literature. They state that the condition occurs most often in elderly females It is characterized by acute pun and vomiting followed within a short time by marked collargement of the gall bladder which renders that organ palpable The palpable mass appears and

The torsion is favored by the presence of a mesentery or short attachment of the gall bladder In the authors' three cases only the cystic duct and disappears neck seemed to be attached to the liver The hody and fundus were free The authors suggest that the normal penstalsis of the transverse colon might ause such torsion by carrying the gall bladder in an anti clockwise direction. They cite the great frequency of torsion in an anti-clockwise direction. quency of torsion in an anti clockwise direction in the reviewed cases "Gall stones are apparently not

As treatment, the authors advise early cholceystectomy In the thirty-nine reviewed cases in which an important factor the results of operation were reported there were

#### Cholecystitis Without Stone five deaths Mackey, W A Cholecyst Bril J Surg, 1934, 22 274

In a review of the literature Mackey found that, according to the experience of a large number of surgeons, cure or improvement can be expected after cholecystectomy in nearly 90 per cent of cases of cholehthiasis and in more than 80 per cent of cases of cholecystitis without stones

He concludes that the majority of surgeons have come to regard hillary colic as a symptom which definitely implicates the gall bladder and to helieve that if colic has occurred a satisfactory outcome from cholecystectomy is practically assured fact, in the estimation of the prognosis this symptom has come to be considered of greater importance than the pathological changes that may be present in the gall bladder

In order to formulate an opinion on these problems Mackey critically reviewed 243 cases of cholecy statis without stones and 21 cases of cholesterosis of the gall bladder with stones in which choles steetom) was performed during the ten year period from 1922 to 1931 Follow-up studies year periou from 1922 to 1931 ronow-up studies were made carefully, and all of the pathological ma-

From his findings Mackey concludes that in cases of cholecy stitis without stones cholecy steetomy has terral was re examined a mortality of 3 per cent, cures the symptoms in 30 a mortanty of 3 per cent, cures the symptoms in 30 per cent of the cases, results in improvement in 30 per cent of the cases, results in improvement in 30 per cent of the cases, results in improvement in 30 per cent, and is followed by unsatisfactory end results in 37 per cent He states that no single test is infallible, but in the individual case a study of the chincal history, of the cholecystogram, and of the enincal miscory, or the enough stockant, and or the microscopic sections may each yield information microscopic secuous may each yield information pointing toward or away from the gall bladder. To pointing toward or away from the gan madder to establish a diagnosis of cholecystitis the history must be typical and include pain, and the cholecys tographic changes must be definite Alicroscopic changes are probably not significant unless they are

In the individual case the results of surgical treatment of cholceystutis without stones are relatively unpredictable even by the most modern laboratory fairly gross unpredictable even by the most mouth, that they will procedures. It is certain, however, that they will be precedured in the precedure of not be so good as those obtained in the presence of gross organic disease, in which, as a rule, the sympgross organic disease, in vincil, as a rule, the symptoms are clamant and the relief after operation is dramatic

Patey, D. H. The Experimental Production of Cholesterosis (Strawberry) Gall Bladder Brit

In experiments on rabbits the blood cholesterol was raised by feeding cholesterol and at the same time attempts were made to produce inflammatory changes in the wall of the gall bladder by pinching the organ with forceps, puncturing it with a hypodermie needle, ligating the cystic duct, or injecting short chained streptoeocci intravenously snort chained streptoeocca intravenously Later, sections of the gall bladders were stained with Sudan III and examined with the polarizing microscope

In the animals in which the inflammatory reaction was confined to the serosa, the deposits of cholesterol were also limited to the serosa Deposits of cholesterol similar to those in the chronically inflamed gall bladder were found also in other chronically inflamed regions such as the surgical incision of the abdominal wall and adhesions about the gall of the cystic duct before the feeding of cholesterol did not prevent the deposition of cholesterol in the inflamed gall bladder. The content of cholesterol in the blood was always higher than the content of cholesterol in the hile

The author concluded that in the hypercholesterolized rabbit cholesterol is apt to be deposited in the chronically inflamed gall bladder from the blood His findings are against Illingworth's conclusion that the cholesterol comes from the bile and is deposited because of a breakdown of the normal absorptive mechanism Pater believes there is little evidence to support the theory that choiceterosis is due to a breakdown in a normal cholesterolsecreting mechanism.

The hadings in the experiments reported suggested no relationship between the cholesterous

gall bladder and gall stoom.

In discussing the spoileation of his experimental findings to man, Patey mys that if the cholesterouts gall bladder represents merely the deposition of cholesterol from the blood, then, provided the func tional tests of the gall bladder are satisfactory and the organ appears normal, there is no more indica-tion for choice streeting on account of the condition for so then for the removal of any other ranthoma tous area CARL O LAMORE M D

Mauricetra, R. L., and Chiless, R. V. Acute (Edwaateus Pancreatitis (La pancreatite agode alemotors) Em mil -paint de paint feminene, \$14. 103

The scute orderatious pancreatitle described by Zoepfel, Brocq, and Conveisity is an affection of the pancress characterized by an acute ordenations inflitration—generally diffuse—of that organ with interest of the adjoint periodeum. If presents a definite clinical picture. The authors who have had an opportualry to study three cases of the condition, compare their facilities with those the instruction compare their facilities. their cases in detail, incheding the laboratory roent genological, and operative findings

Patients with acute ordenatous pencrestitis often pre a Matory of "hepatic color or dyspecers, but the conset of the charace is scute with severe, steady several pain in the abdomen which sometimes is most marked on the right ade and is often accom-panied by wording. The wonden may be blie stalood. The acute track may subside, but as a raie a hemorrhagic pascreatitis develops. Some-times there is alight lever. Jaundice is present in varying degree. Tours is usually distribute. Prostution, even shock, may result. The abdoness is reme, rigid, and often distended. On deep pulpation, especially in the right upper quadrant, it is spatic. Tests of the function of the pancress are inconcissive. Roentgen signs of pancrentitis—an angulation and displacement of the duodesness—have been

described by Bonner That the clinical picture may wary decidedly is evidenced by cases cited from the literature A per-operative diagnosis is often impossible. The nature of the condition may not be recognized even at operation unless the surgeon bears the possibility of the disease in mind. The stiopathogenesis is obscure Laboratory experiments have yielded indefinite or contradictory results. From the stand-point of the prognoses three forms are to be duthguisbed: (1) a subscute intermittent type, (2) an acute type with a violent oner, and (3) a superscate type with a very grave outlook. The treatment indicated is surgical and should be

directed primarily to the binary tests. As a rele it is cholocystectomy. In the postoperative trust ment the sugar chlorides, and ures of the blood ECCEPT T LINEY M.D. should be obested up.

James, R. M. : Pancreatic Flatula, Report of a Case: Care by Pancreetogustrosteery Brill J Sury 206,

James reports a case of panerratic fishib which followed operation for souts bemorrhagic panerratito After the fatale had decharged for six months, drainage became slight and a pancreatic cyst formed At second operation the cyst was marsopiaheed. The fistule thus formed continued to drain about 11 on of cient finle daily At a third operation the fatale was implented into the stometh. Complete recovery hethad East Garmer, M.D.

#### **GYNECOLOGY**

#### UTERUS

Bonney, \ The Principles That Should Underlie
All Operations for ProInpse J Obst & Gynac
Brit Emp, 1934, 41 669

The author precedes a discussion of the different types of prolapse by a detailed description of the supporting mechanism of the vagina. He states that there is a constant tendency for the vagina to evert when the intra-abdominal pressure rises above the atmospheric pressure, but that under normal conditions there are several factors which hinder eversion or prolapse. Prolapse denotes failure of some or all of the factors in the protective mechanism.

For successful results in the treatment of prolapse the surgeon must ascertain before undertaking the operation which portion of the supporting mechanism has failed. No one operation is applicable to all types of prolapse. Every operation for the condition should have as its object the restoration of the part of the sustaining mechanism of the vaging which is at fault. Henry S. Acken, Jr., M.D.

Frankl, O The Mucosal Vessels of the Bleeding Uterus (Ueber die Schleimhautgesaesse der bluten den Gebaermutter) II 1en klin II chinschr., 1934, 2838

We know today that the changes in the mucosa of the uterus take place under the influence of two hormones, folliculin in the first half of the cycle, and progestin or luteohormon in the second half. As secretion processes occur in the uterine glands even in the first phase, the author suggests the designation "evolutionary stage" for the first phase and 'transformation stage" (Clauberg) for the second phase In the second phase three layers may be differentiated in the mucosa, the basalis with narrow inactive glands, and the functionalis of Schroeder which is divided into two layers, the prædeciduale compacta on the surface through which only the excre tory ducts of the glands pass and, beneath, the spongiosa The blood vessels of the mucosa show cyclic changes paralleling those occurring in the glands In the beginning of the evolutionary stage the mucosa is poor in vessels and its vessels are narrow and thin walled Even at the end of this stage its vascular supply is not very rich However, under the effect of the luteohormon a progressive increase of vascularization occurs so that at the end of the transformation stage numerous very wide vessels similar to those of the glands are present The transformation is therefore not the result of hyperæmia, but due solely to the effect of the progestin The physiological progress of this vascular cycle may be disturbed by ovarian disharmonies, disturbances of the general circulation, local mechan

ical influences (such as may be caused by the pressure effect of benign tumors), inflammatory, degenerative and destructive processes, and by constitutional peculiarities. In addition to persistence of the follicle, sudden incomplete ripening of the follicle may cause a hyperplasia

The vessels of the hyperplastic mucosa are extraordinarily numerous and very wide. They run irregularly and are not vertical to the epithelium. The vascular changes may be the only sign of the disturbance in hormone production. As they may lead to thromboses and necroses they may also cause hæmorrhages Therefore the hyperæmia associated with hyperplasia of the mucosa is never the cause of the mucosal changes but is the result of an excess of folliculin in the absence of luteohormon. In cases of myoma also, the mucosal vessels are enormously dilated and may develop into the form of blood sinuses. The vessels of polyps usually have thick walls and wide lumina. In adenomyosis the vessels are enormously dilated, show an irregular arrangement with spiral windings, and have thickened walls During the puerperium there may be considerable bleeding from widened vessels in retained islands of the decidua. Utenne hamorrhages which are so fre quent and sometimes not easy to understand demand a closer study of the blood vessels of the utenne mucosa than has been made to date

(FROMMOLT) JOHN W BRENNAN, M D

Cotte, G, and Mathieu, J Cases of Spontaneous Phiebitis Occurring During the Course of Development of Uterine Myomata (Quelques cas de phiébites spontanées au cours de l'évolution des myomes uterns) Gynée et obst, 1934, 30 200

The authors discuss only phlebitis developing in cases of uterine myoma before the institution of treatment This type is quite rare. Although in most cases the myoma has already become manifested by hæmorrhage or other signs, in other cases the phlebitis is the first sign. The authors report four cases of the latter type In three of them the phlebitis was very evidently due to infection. In one of the latter it developed during an attack of pulmonary congestion In the two others the myoma was of the anæmic type and the bleeding resembled the secondary bæmorrhages occurring in infected wounds In a case with unnary disturbances the colon bacillus was found in the urine and it was probable that, as in certain cases of postoperative phlebitis, the infection was of intestinal origin

The authors have seen only five cases of the type described in a period of fifteen years and believe that the present-day use of physiotherapy in cases of metrorrhagia and the early performance of myomectomy will probably decrease their incidence

In none of the cases reviewed was the famor large enough to came compression. In spite of immediate immobilization, the application of leeches, vacdrotherapy and the use of all other known remedies. the philebitis in all of the cases moved from one side to the other and in one case it involved even the

upper limb.

Phlebitis due to compression occurs in cases of large fibromata and produces more or less marked remous dilatation on the surface of the layed red limb. It is characterised by rapid cadena, beence of fever, and only slight pain. Palmation reveals a hard cord along the course of the sanbeauta or femoral vein, which is evidence of venous obliteration.

The phiebitis of infection, on the other hand, may lavolve any vein of the body. It develops anddonly with severe pain and fever. Suppuration may occur if the betterium is sufficiently similari.

Because of the danger of embohem, most surrooms believe that in cases of phiebitis due to compression It is best to delay intervention until the phiebitis has subsided. For cases of phiebitis due to infection they recommend immediate removal of the payona because the tumor is usually necrotic and the risk of thrombosis becomes greater with delay. As the infection causing infectious phichitis is so frequently of Intestinal or unpary origin, Cotts and Mathieu believe that immediate operation for removal of the myoms would not have a beneficial effect open it and that therefore, in cases of infectious phiebitis as well as those of phiebitis due to compression, operation should be delayed until the phichitis has subsided A delay of forty days has been suggested, but in some cases it may be pecessary to operate much sartier and in others to delay longer Operation is indicated as soon as the phichitm has subsided and embolism is no longer to be feared. The tempers ture, blood picture, and sedimentation rate should be used as reides In emergency cases, such as those of gangranous

myone, it might be advisable to heate the hypecarrie velos before removing the tumor

EDITE SCHANCES MOORE

Wetterful, P. Does the Microscopical Diagnosts
Afford Prepasettesi Quidence in Carrieal
Cancer? Ada stat of place Stead #34, 14 301.

At Redimmerance, Stockholm, the relation between the histological possession of a center and the results of redress treatment as judged from observation over period of five years was studied in 334 cases of solid cancer of the cervix. The cancers were classified histologically into 3 groups () mature Leratinous cancers, (s) more typical cancers without keratioous formation, and (3) immature anaplastic cancers. Chnically the cases were divided into four groups according to the chardbeatson proposed by the Cancer Commission of the League of Nations

The incidence of bealing was so nearly the same in the 1 histological groups as to indicate that the rescreecepic appearance of the cancer is of no imPortance in the prognosis of irradiation treatment. Ramniker made the same observation with regard to treatment by surgery alone and treatment by surgery combined with braduation

The author concludes that the histological ric ture in cervical cancer is of no sid in the promotion and does not indicate whether operation or irredution is to be preferred in a given cam.

Frommolt, G., and Wentager E. The Proceeds of Carcinoms of the Partio in the Young (Lar Progaces des Portrocurcinoms bel Jagendiches). Zewick, f Lynna 934, p. 105

Because of the unfavorable results obtained is recent years in the treatment of carcinosus of the Portio is women under thirty years of age, the au-thors reviewed the carcinoma material of the Berlia University Gynecological Chaic from or to date. Its found that the incidence of carcinoma of the Portso in young women varied considerably in this period of twenty-three years Of the roo cases, hyp-year cure was obtained in 43 ( 53 per cont) As the method of treatment was frequently changed during the period reviewed, the cases are sivided

futo + erroune Of at patients who were treated in the period from o to 1918, 16 7 per cent remained cared for at least five years. Of 15 patients in this group who were subjected to the Wertheist operation, 13 3 per cent were cared permanently. In cases treated to the period from 1913 to 10 p which were reviewed by Philipp and Gornick, the incidence of immediate once from operation was 40 per cent, and the incidence of absolute cure, so 7 per cant.

Of the cases of the authors' sedes walch sere treated in the period from 19 9 to 19 5, permanent cure was obtained in 25 5 per cant. After surjety the incidence of permanent cure was after per cent, whereas after bradiation it was only 16.7 per trail

In the cases treated since pro, period m which radical operation by way of the wagins was sub-stituted for the Werthelm operation, surpry was followed by twice as many permanent cares as inmoltation

The anthors conclude that in cases of carcinoma of the portio in women under thirty years of age the prognosis as definitely more uniavorable than in older women and that treatment by surgery is superior to treatment by irraduction. N increase in the incidence of curenoms of the portie in young women could be established

(PRODUCET) MATERIA J. SELECT M.D.

Calloway C. E. Schiller's Test for Early Squirmane-Call Curcinoms of the Carrix. Am /

Sarz 434, 26 sat Present-day treatment of cancer of the cervis is most efficacious when the growth is in the cuty

stages Consequently any method of investigation which permits an early diagnosis is worthy of trial Schiller's ledine test is advocated as an office procedure to demonstrate glycogen free areas on the cervix It consists in gentle painting of the cervix with Gram's solution (iodine i gm., potassium iodide 2 gm., and water 300 c cm.) It is simple and painless, it requires no expensive apparatus, and it consumes little time. Tissue for study should be taken, if possible, from the margin of an iodine-free area.

Only about 20 per cent of the iodine-free areas will prove to be cancerous, but the continued use of the Schiller test will sumulate more careful inspection of the uterine cervix and should materially increase the examiner's diagnostic acumen in recognizing very early asymptomatic carcinomata

GEORGE H. GARDNER, M D

Puccioni, L. Leucoplakia and Cancer of the Cervix (Leucoplachia e cancro della portio) Rivital di ginec, 1934, 16 25

Puccioni discusses the relationship of leucoplakia to cancer and reports three cases of cervical leucoplakia in which the cervix was amputated and the lesions were studied histologically. He states that in the diagnosis of lesions of the cervix he uses the colposcope and often notes areas of leucoplakia which might be easily overlooked in examination He accepts Hinselmann's with the speculum classification of leucoplakia of the cervix. He describes three types (1) plaques which are whitish, more or less superficial, usually quadrangular or triangular, rarely circular, and often multiple, (2) plaques with a base which appears grayish-red be cause of the intermingling of numerous white and red punctate areas, and (3) plaques composed of grayish-white quadrangular forms separated from one another by a red ring

Histologically, he differentiates four types Type I is characterized by cornification of the superficial layer of the epithelium and the appearance of atypical epithelial elements, especially in the deeper layers Type 2 shows, in addition to the epithelial changes seen in Type I, a distinct tendency toward deepening of the epithelial papille into the subjacent connective tissue and around the glands Type 3 is characterized by many atypical cells. In Type 4, the cells are frankly neoplastic

Following a review of the literature on the relation between leucoplakia and cancer, the author concludes that not infrequently plaques of leucoplakia may develop into carcinoma and that therefore early diagnosis and removal of areas of leucoplakia are important in the diagnosis and prevention of carcinoma of the cervix

In discussing the etiology of leucoplakia of the cervix, he attaches great importance to chronic inflammatory processes or irritative lesions of the genital tract. He calls attention to the fact that most women with leucoplakia have had leucorrhea for a long time and show lacerations, ectropions, or erosions of the cervix. The areas of leucoplakia seen through the colposcope are usually found along the margins of an ectropion or erosion

The cervical area involved by leucoplakia should be excised and the plaque of tissue examined microscopically The tissue changes seen microscopically determine whether the treatment should be amputation of the cervix or total hysterectomy. Only very early lesions may be treated conservatively with examination at frequent intervals.

PETER A ROSI, M D

Taussig, F J Hiac Lymphadenectomy with Irradiation in the Treatment of Cancer of the Cervix. Am J Obst & Gynec, 1934, 28 650

Iliac lymphadenectomy has been performed by the author in twenty-six cases of cancers of Groups 2 and 3

Under spinal anæsthesia a midline incision was made. After simple ligation and removal of the right adnexa, the posterior sheath of the broad ligament on that side was caught with a clamp and the ligament opened up with exposure of the ureter coursing over the pelvic brim and attached to the posterior sheath It was then possible to see the bifurcation of the common that vessels into the external and internal that branches and, in the angle between these vessels, the iliac lymph gland, the most common site of metastasis of cancer of the cervix. With a little experience in lymph-gland palpation and dissection it became a relatively simple matter to free this gland and lift it up so that the small nutrient vein could be caught and ligated. The obturator gland was then removed. If the parametrum was not thickened too much, it was possible to follow the ureter down to where it crossed the uterine artery Here the ureteral glands (Championnier) were located and removed. The removal of these glands was more difficult as it was necessary to avoid injury to the ureter Removal of these glands often required ligation of the uterine vessels Occasionally the glands were surrounded by exudate to such an extent as to make their removal inadvisable. This was true in two out of seven of the cases. In such instances radium emanation seeds were implanted into the lymph gland,

The relative infrequence of involvement of the sacral glands, the variation in the location of these glands back of the rectum, and the necessity for extensive deep dissection to effect their removal led the author to refrain from including them in the operative procedures Hence, instead of removing them, he implanted two gold radon seeds of 11/2 mc. each with a trocar along the course of the sacroutenne ligaments and a third radon seed of equal strength in the loose connective tissue of the iliac bifurcation. In order to prevent the formation of a hæmatoma in the broad ligament, the connective tissue space that had been opened up was compressed by suturing the round and sacro-uterine ligaments to each other at a distance of 4 or 5 cm from their uterine insertion. The remaining wound was closed by a running peritoneal stitch The same procedure was then carned out on the other side. The abdomen was closed without drainage. The operation was usually followed by an intracervical application of

radium

In sixteen of the twenty-three cases preliminary an account or one canney rates canno parameters in biperation of traffirm are linear in all put (an Processing or radion seeds acre applied at the time of the lymph-gland resection (radon seeds in twenty-one cases, radium alone in three cases, and termity-one cases, caming assess in currer cases, each both radon seeds, and radom in twelve cases) tray treatment given usually on four days over period of ten days and totaling 900 ms -mm, equiv person or ton only a non-treatment good may come, or other person or ton first transfer, was employed in thirteen atent to car r units, was employed in someter cases. The lowest dose of radiam, ,600 mgm hr was given in the case of a patient with incompleta was given in the case of a patient with mannespair, treatment who died six days after operation. The inghest does, 8, 75 mgm hr was given when re tradiation was resorted to for recurrence. The aver transmission are sensiting to the secretarion and areas 4 30

magm by

In the iem advanced cases there was one operative
death, a mortality of 5 5 per cmt, while in the far
advanced cases there was J deaths, mortality of

If per cent, and the period of the period of

removed lymph judged of very side in some in the Inge of the property of the p

Tudhope, G. R., and Chisbolm, A. E. On the Ro-Called Successes of the Endownerform. J. Old. Grant End. End. 23th 4 708

Duning the past few years the group of neoplasms classified as surcounts has been reduced by the creatment of which a new recognised of new growths the epithelial slitter are the most recognised. Examples of the planes and highly collular tumous of the thyroid langs, and trackly which can now be classified as already advects a demonstration.

The a thors describe there terms tensor all of the area tensored after the perspective of the perspective of

minds peared to be expended and stretched rather than invaded by the tenor. In the case, the tenor that the tenor tenor to the tenor tenor that the tenor tenor

Many reported cases of cardiomerous of the utients were revised. The authors believe that some of the tamors in these cases were cellular to the cases were cellular.

Cattlements

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Groupe H Glaura, MD

Mocquot, P., and De Langra, M. Sarmensts of the Body of the Utarra (Sarmes de cops de Fattra) Cymicalogic 611 11 412.

Although minoms of the uterm is rare, mesh fating only about per cent of sterms tamon, the authors have seen three cases in a period was the two years. They report these cases in detail

The director was that of weens forty-three and of ap who attend the hospital for frestment of about the property which was most particularly for the desired and actionary which was most to be also of the first and attended to the particular and shoulker and form, and morning the apparent and a temperate form, and morning the apparent and a temperate properties of a particular and shoulker and the particular and shoulker and the apparent and the throughout the particular and the apparent and the properties are the apparent and the particular and particular and particular and the particu

The second case was that of woman forty are ready the mother of sir children. The younger thild was secondary many the property of the propert

was round and regular in form and movable Because of the rapid development of the tumor, malignancy was suspected. Total hysterectomy and appendectom were performed Histological examination chowed the tumor to be a letomy of the sarcoma. The patient is now in excellent health

The third case was that of a very obese noman estion can promotel and had bed and a serious woman sixteen tear previously and had had a seroeanguin ous discharge for several months Pelvic examination disclosed 7 resistant abdominal tumor with tion disclosed a resistant andomin in tumor situated some degree of fluctuation which was situated mainly to the left of the midline polycyctic tumor of the overy was made and sub-total hysterectoms was done. The tumor was found to be exceptions and of storms of the control mainly to the left of the midline to be sarcomatous and of uterine origin in unusual feature was its existic consistency. During the open tion it vas punctured with a trocar and more than I liter of bloody fluid was represed. The patient died two months after the operation from a pleuro-

In discussing these cases the authors compare them with twenty three cases collected from the pulmonary metastasis them with twenty three cases conceived from the hierature. They state that the possibility of utenne national they serie that the positioner of metrors arcoma should be considered in all cases of metrors. rhagia or abdominal pain associated with a rapid increase in the size of the abdomen due to a tumor with the characteristics of 7 throm? In such crees hysterectoms is the exfest procedure. For moper able cases of uterine sarcoma the authors recommend and cases of attention and attention to the fact that in two of their three cases the condition was ac companied hy fever and phlebitis which are not common complications of uterine fibroids

ADNEXAL AND PERIUTERINE CONDITIONS The Nature of Ovary-Stimulating Hormones Am J Obst & Grace 1934 28 Fluhmann, C F

A comparison of the biological characteristics of a number of gonad stimulating hormones was made by (I) an analysis of the histological changes induced in the ovaries of immature rats, (2) a compari son of the effect on the weight of the ovaries of a known total dose of an extract given over periods of five and ten days, and (3) a study of the histological changes in the overries of hypophysectomized rats

It was found that the extracts could be divided into the two following main groups (1) an "anterior pituitary group, which included preparations made from human himonhimeal material and the urane of from human hypophyseal material and the urine of women in the postchimacteric period and (2) ? "chorionic hormone group," which included extracts prepared from the blood or urine of normal pregnant women, the urine of a voman with a chorionepithe home of the uterus, and the urine of a man with a

The possible role of the "chorionic ovary stimulating hormone" in the physiology of human gesteratoma of the testicle tation is discussed

Jessconte, T. N. A., and Potter, A. L. Endometriosls as a Manifestation of Orarian Dysfunction

J Obsi & Gynac Brit Emp , 1934 41 684 Without considering the origin of the initial endometral elements in endometriomatous lesions the authors express the opinion that the subsequent development of such lesions depends upon over activity of the portion of the ovary secreting the folheular hormone. In the majority of the III cases of endometriosis which they studied the presence of such overactivity was demonstrated by examination of either the ovary or the endometrium of the uterus In only 1 few instances was there 1 demonstrable corpus luteum or any evidence in the endometrium of the action of the corpus lutenin whitever the time of the menstrual cycle. The incidence of eterility was extremely high From their studies the authors conclude also that the overgrowth of fibromuscular tissue frequently associated with endometriosis may be due to overactivity of the ovary in the production of the follicular hormone

## MISCELLANEOUS

Guldes with Regard to the Clinical Aspects of Gonorrhorn in the Ternale (I mge Richtlimen zur Klinik der weiblichen Gonorrhoe) Bucura, C

Bucura first discusses the various methods used

for the diagnosis of gonorrhea, especially the micro scopic emmination of slides stained with Gram's He then discusses the significance of the complement fixation reaction in gonorrhoca states that the serum reaction is definitely positive only after the gonococci have reached the deeper tiesue lavers In every case it is at first negative. As a rule the body requires from two to three weeks to become scropositive even when the infection involves the deep structures

The result of the serum reaction is of special importance in the determination of the treatment. In the acute stage the chief object of treatment should be to strengthen the body's resistance to the organisms Of chief importance, therefore, are rest and a proper position of the body to favor drainage of the

Actual treatment is not begun until the chronic stage is reached, that is, The author discusses the acute to the chronic stage, The author discusses the secretion nature and importance of local treatment with particular reference to the excellent results obtained by vaccine therapy lie states that the injection of vaccine should be given in the immediate site of the infection Vaccine treatment is contra indicated by extensive active lung conditions, severe cardiac injuries, and other severe affections of internal organs Detailed instructions regarding the dosage of vaccine are given

Bucura next discusses the indications for surgical intervention, but emphasizes that as a rule gonorrhora can be cured by conservative methods. He states that the earlier the treatment is begun the store complete the cure, and the later it is begun the greater the probability of residual functional disturbances (t. Watcarray), Mannas J Sergers M.D.

Packalén, T i Studies on the Gosormatien; Its Specificity and Its Behavior in Prosticutes. Acts Sec. and Fessions Desircin, 934, 7 Fac. No. 1

The a ther precedes a discussion of the result is has obtained with the Entitations retaining a final generaction (pronounced complement furtice reation) by a lengthy and detailed review of the Hernters on this reaction. He states that the reports the the intention concerning the reliability of this test are at great restance, the reported accuracy in hosteriologically proved cause of posentheal untribirialitying times y<sub>4</sub> apper cure (Mermanum and Zenda) to 19 and 2 per cont (Percentulal and Hermanum).

Packalen carried out 3,375 series tests on 3 large groups of persons (2) 0,3 non-prestrutes, and (3) 675 prostrutes. These included patients with bac terologically proved groundway, patients with an thrith and admentits not bacterologically proved to

be gonorrhoral, and fire persons used as controls. The chief results of the tests are summarized as

follows

Of 54 persons with proved generation, \$4.4 per cost showed a definitely positive reaction, 9 per cost 8 weakly positive reaction, and \$4 per cost a negative reaction.

The mendance of positive reactions was highest in cases of ribritis and inflammation of the fenale admers. In the former it was 98 s per cent and in the

latter g 7 per cent

1 Of 44 cases of governhoes limited to the mucous

membrane, the reaction was positive in 6.9 per cere!
4 Of 4.9 papermity benishly persons embedded to
the text, 5 1.7 per cent) showed positive reaction
0 1.33 patients with various diagnoses empty gonembran, 6 per cent reacted positively as did 7.4 per
cent of 9 pregnant or aborting women and 7.4 per
cent of 4.97 patients with pulmonary roberculoids
without thirds avidence of economics.

5. In the cases of §5 prostitutes who had or had had hadrandepixally proved promotions the incidence of positive resulton ranged from §5 to §5 of per cent in the cases of §5 prostitutes with south or very recently acuts genorthese if ranged from §5 of to §5,0 per cent and in the cases of \$75 prostitutes with without bactersological evidence of genorthese it ranged §5 to \$4.5 per cent.

6 Of 30 women who had been prostlutes for from the months to two years, about to per test showed a positive processerious although bacteriological proof of grococcal meeting was found in only an oper cent. In the cases of 35 women who

had been prostitutes for more than two years, the incidence of positive reactions was 75 per cent. The author concludes from these findings that while the presence of acuts genomines can be proved in a bight percentage of cases both bacteriologically and smologically chronic genomenal insection is ditected about; it times more offer my rescription, in the property of the property of the protage of productions the genomenation were used as a continuous central in addition to repair bedraklegical examination it would make possible, such effective supervision and control of these infected and notantially infaced versus.

HARDE C. MACK M.D.

#### Mitsul, E. A Study of Appendicitis in Oynecology J p J Oles & Gyes: 014, 7 ags

The author believes that there is a close relation between appendictle and infeatment on the faternal female gentlatis and that therefore, whenever appendictus occurs in a soman of memograble age, the appendix should be removed however, sight the armid. If is of the option also that is general sparretonies on women the internal position production of the production of the conlege of the production of the production of the art measure seem if the appendix shown so moving changes. If procures, twintername on the

Cascagna, O. Experimental Investigations Resarding the Resistancella Between the Hypose Claude and the Geetral Organs of Immetrial Fernial Rubbits Turning with Propagation of the masses (Rutrichs spechestals Interes also or relacions) for time of apparets present research di creigle imposer training on armost praviol. 28 del de press, 1994, 15 dep.

In the literature reviewed by the uthor there is considerable controversy regarding the relationship between the thymns gland and the grund organs.

Friedrichen, Hammar Canaldi, Rancord, and eleer differ coparding the cancel weight of the stymus at varoes times of his fort agree that the gland is large to premate life, duratished other facts and second years, horeagest again between the fitteenth and twentistic years, regresses producifative the twentistic years, regresses produciffacts the twentists year, regresses producifstreet the twentists year states as slightly

A number of Investigators, have reported hyperreply of the node goods in young aslated below ing thysectomy and hypertrophy of the thyran following christician obligation and the state of the control of the state of the hyperical investities of the certainties of the physiological investities of the certainties of the set grained and analysis after prolonged administrations of thyrane certaint in females, Instead of the set grained of the certainties of the cer

## GYNECOLOGY

The author studied the action of the pregnancy hormones on the thymus of immiture animals. He normones on the thymus of manufactic annuals selected rabbits from sixty to eighty days old which weighed from 650 to 750 gm He divided them into weighed from 050 to 750 km. The divided them into 5 groups of 3 rabbits each. The first group were S Broups of same from nomen in the fourth even injections of urine from nomen in the second group, injections of urine from nomen of term the third group or mur month of pregnancy, the second group, injections of unne from women at term, the third group, cons or urme from women at term, which was free "boiled" urme of women at term, which was free from pituitary hormones as these hormones are from pituitity normones as these normones are destroyed at 60 degrees  $\Gamma$ , and the fourth group, using from normal male adults. In the cases of the rabbits in the tifth group small picces of placental tusue were introduced retroperitoneally and injections tions of a water extract of placenta were given In the first four groups 4 c.cm of the urine were injected twice a day for fifteen days, and in the fifth group of the placental extract were injected twice a day for the same length of time. No untoward symptoms were noted in any of the animals

symptoms were noted in any of the animals rabbits. At the end of the fifteen days all of the rabbits were killed and examined. The findings of Rabbits amination are summarized as follows to animation are summarized as follows to change in treated with adult male upon change in treated with adult male urine showed no changes in

their genital organs

2 Rabbits treated with the urine of women at term and those treated with placental tissue plus placental extract showed a tumultuous development pracernal extract shower a tumurtuous development of some of the follicles, a tendency toward atrests of some of the degeneration in others and regrees and control of the state of the sta of some of the folicies, a length of the manufacture and regressive and cystic degeneration in others, of the manufacture and regressive and cystic degeneration are also as the manufacture of the manufacture and regressive and cystic degeneration are also as the manufacture and regressive and cystic degeneration are also as the manufacture and the manufacture are also as the manufacture are changes in the lining epithelium of the utenne

Rabbits treated with the urine of early preg cornua

nancy and those treated with "boiled" urine showed hypertrophic mucosa with an increase in the length any number of glands in the uterine horns as com

The thymus glands in the groups receiving pregnancy urine and the group treated with placenta pared with the controls tissue and extrict shoved grossly a decrease in size with sparse viscularization and, microscopically, smaller and more irregular tubules, increased connective tiesue, and more pale strining cells as com-

The author comes to the conclusion that the une of pregnant women 15 well as placental tissue pared with the controls and placental extract contains a substance which is and pricental extract contains a substance which is capable of provoking regressive changes in the

thymus gland of immature animals

### OBSTETRICS

## PREGRANCY AND HE COMPLICATIONS

Schwarz, C. Habitum Abortion (Unber den kaldte other Abort) Leaders Abortion (Orner ton as the Abort) Leaders / Great 914, p. 3 The cases in which borrion occurs arontaneously

from a known cause and causal treatment can therefore be given are relatively few They should not be considered as kendinal abortions in the strict NOT BE COMMONTRY AS EXAMINATED A STATE OF THE STATE OF TH sense or the term in a targe pounter to peace to habited abortion there is a brooming are different state. of the uterns and abortion results because the as one does beary manual labor to spice of all his habor rains or because of other industries of sugar lating and contractions they occi in the utility primples early contractions may occu in the figs.d salettes and give one to labor pains leading to expedition of the fetting.

On the true return.

The treatment given in these cases is bed rest and sculings. However, it is executed a new contains a services and RUCCESCIO 23 OCCASORILIA MONCO ADO PERO PERO POR ODE ACCEPTANT AS OCCASIONALLY NUMBER WHY MAYO MAN VIOLENCE OF IA. Shorthous CETY fetus to term | Manual spy or is abortions carry ferms to term fraunt sur-free linear. In so case has the author been ship

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Spherite treatment is gymenic in such cases at its phicatic also r cases or asortest anortest are builts from the occurrently binned good results from Il supported that rejections of pecualization sportly be oath a god's believed of fine-besterable in such as the state of the sta throughout the backuract. (g at h gest tas) forth / all MD grant on heracers.

LABOR AND ITS COMPLICATIONS Sjörail. A. A Contribution to the Study of the

ALL A CONTROLLOR OF the Street ringinger and attemptation of these Presents of the Contribution of the definition of the Contribution of The author includes in his discussion of horse

the nature memors in an attenues or more presentation both cases in which delivery occurred designationally and those agree in solve minimized and those to solve the so Memiateromy and those water intervences as accessive IIIs statistics are based on fifty store

crace observed between the Years 19 I and 1913 at the Rightopital, Copenhagen As paragram, Lorenzeau Of filty seven intents, i cuts two ded. Among the latter were five absormal fettier

or state were new season on reverse an abolisher than in normal deliveries, there are one case of aterine raptime the average weights of the infants are presented

to arrive a compared with those reported from other cluster. The constances defined and of constances defined and confidence requiring inferrence to the case of constances and management of the case of the constances and management of the case of the constances and constances are constances and constances and constances are constances and constances and constances are constances are constances are constances and constances are constances and constances are constances pistories are reported in detail

Heymenson, T | Spontaneous Transformation of James III. 1 appointments 1 passonments as Face Presentation but to an Oction Presentation for the Presentation of Execution of Execution (Secretary). a Face Presentation into an Occipat Present-tion During the Period of Epochem (Sportner the faring the Price of Aspender (Spender) between the price of faring the state of Aspenders of Rate (Aspender) and Aspenders of Rate (Aspender) between the state of the sta

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As in all previously observed cases, so also in this
case, the char resulted in the back before the charge

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While settly movements on the four or time area transparent too common or the fettis simple days brought about the part of the lettis sugar, have account about the change, the other believes that this mechanism is possible only, been the animote me is still little. possible only here the superior size is say tracked in of the option of the period of expedient fit is of the option that when, as in the case reported. n or the openion that when, as in the case (specially both has been in progress for as long as elect a leave to be the case). and the annionic say has been repeated for try and the american are has been repeated for the born, the strength of the contractions of the intermaris, the science or one contractions or the time and of the adominal meades excrets the activities

design the organization of the best to such as entering that the face presentation will remain tabilited If so of the option that the position of the state of the state of the beat in relation to the body the smoot of the head and neck, plays determining role is the

development of face presentation and that by changing the position of this aris by changing the position of the woman the face presentation can be changed to an occiput presentation. If the woman is laid on her right side when the face of the child is directed toward the left, the chin will sink more deeply and tend to turn forward. If the woman is allowed to sit up or stand, the uterus will fall over toward the left. Thus, in a case of mentoposterior face presentation the chin is raised and repeated change from the right lateral recumbent position to the erect position may change the neutral frontal presentation to an occiput presentation. In the case reported these mechanical requirements were met during labor.

#### (H Fuchs) John W Brennan, M D

Kuestner, H Increasing the Secretion of Milk with Anti-Thyroid Protective Substances (Stergerung der Milchsekretton durch anuthyreoiden Schutzstoff) Muenchen med II chnschr, 1934, 2

PUERPERIUM AND ITS COMPLICATIONS

In the production of milk the following factors play a rôle (1) the previous size of the mammary glands, (2) the development of the mammary glands during pregnancy, and (3) the functional efficiency of the fully developed glands during lactation. Artificial influencing of the two first factors to increase the quantity of milk in women after delivery appears hardly possible. On the other hand, it seems feasible to attempt to improve the functional efficiency of the glands. Of the physical methods for this purpose, the best are massage of the breast, nursing, and thorough emptying of the breast after nursing. Complete emptying is accomplished better by milking than by the use of a breast pump

Of the chemicopharmacological agents, the sex hormones bave been found to cause a marked development of the mammary glands in animals. How ever, their use should not be applied to human beings without further investigation. It has been noted, conversely, that the administration of thyroxin considerably decreases the secretion of milk. This observation suggested that by suppressing the function of the thyroid by the administration of anti thyroid protective substances the formation of milk might he increased in women with an insufficient secretion This assumption was proved correct by a series of observations. In women who were given such a protective substance (thyronorman or di-iodo thyrosin) the quantity of milk increased and the time between the beginning of the secretion and the maximum secretion was considerably shortened

For women who, after previous pregnancies, were able to nurse their infants for only a sbort time or not at all or whose supply of milk was insufficient, the author recommends the prophylactic admin istration of the protective substances. Occasional failures of this treatment he ascribes to inherited defects or too small mammary glands.

(K J ANSELMINO) MATHIAS J SEIFERT, M D

Ducuing, J, and Guilhem, P Obstetrical Phlebitis of the Subacute Venous Septicæmia Type (Les phlébites obstétricales à forme de septicémie venieuse subaigue) Gynée et obst., 1934, 30 222

Subacute venous septicamia as a sequel to childbirth resembles somewhat the medical subacute venous septicamia described by Vaquez and the postoperative subacute venous septicamia de scribed by Ducuing The phlebitis is usually superficial and segmentary and develops in successive stages

The authors report a very severe typical case in detail and discuss the clinical symptoms, diagnosis, and treatment of the condition

A senes of foci appear successively in the superficial veins, the appearance of each being ushered in by neurosympathetic symptoms such as a rise in the local temperature, pain, exaggeration of the shivering reflex, and peripheral symptoms such as sight cedema. If the pelvic veins are involved, visceral symptoms ensue

In the lower extremities the ædema is often located about the malleol. In the leg it is less marked, but is demonstrable when the calf is shaken This cedema either disappears or extends to involve the entire limb. The extension does not proceed unbrokenly, the ædematous foci are separated by normal areas In the abdomen, palpation and careful inspection are usually necessary to demonstrate infiltration. The veins of the upper limb may also be involved with resulting cedema of the elbow region and dorsal surface of the hand Coincident with the ædema there is pain along the inner surface of the arm with a sensation of heaviness and functional impotence. Involvement of the veins of the pelvis is rare. It occurs at an early stage and is manifested by abdominal distention symptoms may indicate prevental pelvic involve-Hæmorrhoidal congestions and tenesmus may indicate perirectal involvement.

Among the septicæmic symptoms are fever and chills of sbort duration. The infection is subacute and the general symptoms are very slight. A new phlebitic focus may appear without changes in the pulse or temperature.

The authors have noted four types of the condi-(1) a type with small successive foci, (2) a type with phlegmasia, (3) a type with quadriplegia, and (4) a severe type like that occurring in the case reported In the type with small successive foci. which occurs chiefly in varicose subjects, the phlebitis involves principally the superficial veins of the lower extremities, the general symptoms are extremely mild, and the appearance of each new focus is manifested merely by slight pain localized to a venous tract, varicosity with slight redness and local heat, or, in a few cases, slight vasomotor disturbances and a slight rise in the temperature. In the type with phlegmasia there is involvement of the deeper vessels of the leg with resulting marked ordema of the whole limb, a veritable phlegmasia alba dolens In the type with quadriplema all four

limbs are involved and in the great majority of cases also the sperite veits. It at the serves type the greatons are more marked and include driftly lasting servend bours and profuse servents. Between the at tacks the patient feels well so that an inexperience observer might believe the condition cured. Soon, however a new forms appears with reserved greatons, recovery may soot this place for majority may soot this place for majority associates, and death may ensure from embeltism or seroticismis.

In spite of the possibility of enhalten, recovery results in most coses of schocute versoes septic philebits. Embolism may be madiested fart by a slight pain or bloody expoure. The exchance discase as which it converted on the seven site has proere diagnosis not having been made and frustment therefore having been madequate. They believe that is this case early diagnosis with immediate

unmobilization might have so ed the patient's life.

The dispansis of substitute remous applicants in high yeary II is sufficient to keep in mide the possibility of such condition in association with reasonate settembane, absoluted internation (soft and depressible) alght locathed endeman, intentinal and urmour choreters, edits, herer and policies. In the differential dispanses such conductors as sustercebits, only intelligent, cardiac orders, cadecrine endeman, malarial chills and sever and peer peral applicants must be ruled out. The destruction in the conduction of the conductors are the conductors are large factor in the differential diagnosis is the vectors involvement.

The proposal of phibuts of the subscuts venous explosents type is favorable, but errors in disposis may lead to dangenous treatment. Since immediate this with due commercian of the periods of lattace is inducted as a new attack new occur on the first attempt to mobilise the patient. Mobilisation should be majorated only where careful observation.

of the temperature and pulse. Treatment for the aspitements, including a stimulating diet, abundant fluids, and scrotherapy with Viscont's seven or learnuportunatusion, is also indicated.

EMPE SCHALCER MODEL

#### MISCRILLINGORS

Ponzi, R.: Seubration of Cheleal Statistics on the Relation Between Parity and Pethological Obstatrics (Paler) statuston-cluste ad report in paths a patologia seterica). Kee stel & pase 1944, 75 Ref.

T determine the relationship of parity to the mere frequent complications of pregnancy the author examined the records of \$,5,50 motion delivered in the time mean result from seed to record

the fire-year period from sard to sare. He found that breech presentation occurred alightly more frequently shoulder presentation \$ times, and multiple pregnancy times more for quently in multipless than in priminate Pythin and eclampsia occurred a times more frequently in reimbrary than is politicary, while the incidence of albuminents was about enough in the a groups Placenta pravia and premature separation of the normally implanted placents were a tunca some frequent and postpartum sermorrhage was Ja times more irreprest is scaltipane than in principara. The lacidence of poerperal infection was about exual in the s groups. Operative delivery was necessary the times more often in the cases of primipers than in those of mnitipane. Complete and intemplets bortions were 5 times more frequent in audinpara than primipara. Venicular make occurred with about equal frequency in the a groups. The mater nal mortality was abality higher in the ceses of

scalingers: then in those of principarts.
Garagez C. Franci, M.D.

#### GENITO-URINARY SURGERY

#### ADRENAL, KIDNEY, AND URETER

Rabboni, F The Behavior of the Lactic Acid of the Blood in Suprarenal Insufficiency (Comportamento dell'acidolattemia nell'insufficienza surrenale) Archital di chir, 1934, 37 387

Following a review of the literature on the function of the suprarenal cortex with special reference to carhohydrate metaholism, Rahhom reports the findings of his studies of the lactic acid content of the hlood in suprarenal insufficiency. In a series of experiments on dogs he first performed a hemisuprarenalectomy and then, after a period of ahout a month, he removed the other suprarenal from some of the animals. He studied the blood hefore, and at intervals of one to ten days after, the operation. The amount of lactic acid was determined by the iodometric method of Jervell. The statistics reported are hased on the ten dogs that survived.

The results of the experiments, in general, indicated that the suprarenal cortex has an important influence on the lactic acid exchange. Beginning with the early days after the hemi adrenalectomy there was an increase in the lactic acid of the blood. The amount reached the maximum after from ten to fifteen days and then gradually returned to normal. The removal of the other suprarenal gland caused.

another increase

The author states that the changes in the lactic acid content of the blood prohably were due to a cortical insufficiency. They were not the result of a total medullary insufficiency as it is known that tissue similar to the suprarenal medulla is to he found also in other parts of the hody. Adrenalin may be obtained from the carotid ganglion, the Zuckerkandl ganglion, and the sympathetic ganglia. The suprarenal cortex probably regulates the processes determining the destruction and removal of the lactic acid, which in large amounts is toxic to the organism. This action may he exerted by stimulation of the resynthesis of the lactic acid by the liver or by further combustion to carbon dioxide and water

A Louis Rost, M D

Beer, E, and Oppenheimer, B S Transplantation of the Adrenal Cortex for Addison's Disease Ann Surg, 1934, 100 689

Beer and Oppenheimer report two cases of Addison's disease in which three transplantations of human adrenal cortex were done. The adrenal tissue was obtained in kidney operations, stripped of the medulla, cut up into pieces the size of a match head, and transplanted into avascular pockets in the rection muscles. In one case the patient died fourteen days after the operation of a progressive bed sore with infection, but microscopic sections removed post mor-

tem showed the adrenal tissue to he viable. In the second case there was such remarkable improvement after the first transplantation that a second transplantation was done. The patient continued to improve and was able to leave the hospital and live a practically normal life. The improvement has now the use of "eschatin" on which the patient was totally dependent previous to the transplantations.

The authors cite the literature to show that heterotransplants are useless and that successful results from homotransplants have been reported also hy others

IRVING J SHAPIRO, M D

Simpson, Levy, Dennison, and Korenchevsky Some Effects of Adrenalectomy in Male Rats J Path & Bacteriol, 1934, 39 569

In studies of fifty-eight adrenalectomized male rats the authors found that decreased appetite and adrenal deficiency were responsible for impairment of growth, a decrease in the gain in hody weight, and poor fat deposition

Adrenal deficiency alone seemed to he responsible for an increase in the weight of the secondary sex organs and delay in the involution of the thymus. The increase in the weight of the prostate and seminal vesicles was considerable and constant, whereas the increase in the weight of the hypophysis was less marked.

The gain in body weight was much less in the adrenal ectomized rats than in the controls

When cortical extract was given the survival of the adrenalectomized rats was prolonged, but the changes in the organs persisted

There was a slight drop in the hæmoglohin and the erythrocyte count Donald K. Hibbs, M D

Redi, R Traumatic Lesions of the Kidney and Their Treatment (Les lésions traumatiques du rein et leur traitement) J d'urol méd et clur, 1934, 38 231

The author states that certain kidney injuries are best treated by immediate operation and others by more conservative methods. He emphasizes that early operation need not necessarily he a nephrectomy. The treatment and prognosis of each lesion depends upon an accurate early diagnosis of the anatomical and pathological disturbances.

Traumatic lesions vary from a slight parenchymatous tear requiring only conservative treatment to complete separation of the kidney from its ureter and pedicle. The differential diagnosis requires not only a knowledge of the general and local signs and unnary findings but also a careful and detailed examination. The author has found functional tests, such as the indigo-carmine-excretion

test, and pickography of great value. As he has had hittle experiences with interactions arongraphy he prefers according tongraphy in transmit beatons of his hitfory. If uses a 15 to 15 per cent solution of hishmy house and has no fear of alection. He states that the state of the state of the state of the and sargical laterierone has been decided upon conservation of the kidner by various types of tecestructive questions is desarrable when possible.

On the besis of his factings in animal experiments in which he is jured the kidney and studied the process of he sling. Reds divides the progress of the lesion into the following three stages (1) hermorrhagic institution, (2) absorption of the clot, and (4) see

formation
I are cases are reported to detail to illustrate the
different types of lexious, the diagnostic procedures.

and the therapeutic methods

Names A Rowsen, M D

Lloy, D. Clinico-Operative Considerations on Cases of Paintul and Hermsturic Nephritis (Consideration chara-operatic se sieum and in nefute constants, delorous Art) and in and

The author reports his observations in the cases of eight patients with pain referred to the laddery or benaticities, or body, above spingtons acre reflered ranged in age from fifteen to diffy rose. Fire of them were feasible. Now of them pare a bistory of previous scut thefection Trianna was possible etchological factor is only rose.

In five cases the pain was alse 3s associated with hematuria, but in three the hematuria as the chief manifestation

The pain varied in intensity from that of typical result role due to a calcular to a mild, dull, routine rous pai or a seaso of eight in the lumbar region it was alway ambitarial in one case, however, deciquiation of one kndey for the rides of pain and kemateria was followed by the description of any large in the role of the other side.

Hematoria, although the predominating a suppleas is three cases, was equally amounted with various degrees of pain. Dysoria and frequency were occasionally noted. A demonstrable cause for the symptoms as found on syndrome examination. The thor attributes them is refer disturbances raping in the deseared industry. Ferrir was overe ob-

secred either during or after the attacks.
Urine examination showed blood and albumin in

the majority of the cases

None of the rationis had noted gra-el or calculus

the ursue

Physical examination of the lavol ed kidney was
usually negative except for tendersons over the lower
note.

3, ray examination falled to show renal calcula Ascrading pyelography as carried out only when the patient condition warranted otherwise de scending pyelography was done with the use of Unusclectan B. In one case the hematuris stopped lumedistrily following the injection of the eroselectan.

During the operation asstomical changes ere eb-

During the operation asstorated changes or soserved in the kidney and capsule. The capsule was thickneed and adherent to the kidney in such a way that in a few cases great care was accessary is the decapsulation to world tearing the kidney pereschyms.

The fatty capsule aboved scar-tisme infiltration and in places was intimately affected to the true capsule by shrous connective tisme. Decayselation was carried out in all cases and was

Decapation of was carried out in all cases and was followed by complete constion of the symptoms. In some case temphrostomy was done on a kidney m hide calcult could not be ruled out.

After reviewing the lebtory of decapsulation of the kidney and the literature on the operation, the author concludes that the fibrous expends begins to re-form early: that after about twenty days it is again of normal thickness, and that after 1 o to

Erre months it becomes about twice the second size. Description of the kildsay destroys the vascolar connections between the capania and the kildsey and there is no evidence that they no form

After the operation there is an increase is the sum her of interlobular arterioles of the curter, the later lobular errs, and the radial wells of the stays of

I erhayen with nonserous anastorsous between them.

The circulation of the kidney is improved because there is an increase in the carculating blood per wit of them.

of three
The renal function is in general improved and returns to normal within bout two months
The author concludes that decapaulation does not

came any harm to the ludney and Improves the fine then and sortifion of the organ. He attributes to effect 1 a medification of the circulation under visionnotor influence of nervous nature which is probably secondary to the severance of the corticoveral nervos filters. Parm A. ROS. M.D.

McCardy G. A.: Renal hoopiness in Chikiness.

J. Park & Barlerid 214, 22 6 3

McCardy reports starty of thirty-one real tempor as children—son termions, I caty serve apphrohestomatia, one cureaceas, and two serves are provided to the shelders or under there can a large and errors. The left thirty was more often afferted than the right Classically the compliants a cere characterized by a sensions one offented by mpid existences of the shokens and occasionally para or beneatoria. Metastates were frequent, and almost sear-subject to the recommendation of the compliance of

McCardy states that in the teratoma clearants derived from the three genrs layers were found and segmangeness had progressed to a stage where ratestine and alin with us appendages could be drillingwahed readily. The great enajority of real transors as children are orphroblastemats. Two important features peculiar to these tumors are (1) the constancy with which they are found encap sulated and apparently without invasion of the surrounding tissue, and (2) their great tendency to recur after surgical removal They may metastasize to almost any organ The metastases resemble the primary growth histologica'ly Pure carcinoma of the kidney in children is rire The diagnosis of sarcoma of the kidney in children must be made with eare because many so-called "sareomata" contain primitive tubules and sometimes glomeruli and therefore are nephroblastomata TRANK M COCHEMS, M D

#### Geschickter, C F, and Widenhorn, H Nephrogenic Tumors Am J Cancer, 1934, 22 620

Geschickter and Widenhorn state that renal tumors may be related to the stages of development in the permanent kidney, that is, may be correlated with the normal phases of nephrogenesis. On the basis of the fact that the permanent kidney has a two-fold origin, they may be divided into two major groups, the medullary and the cortical Nephro genie tumors arising in the cortex constitute the majority of tumors arising in the kidneys, Wilm's tumors, and hypernepbromata Tumors of the excretory portion, which include papillomata of the renal pelvis and similar tumors of the ureter, constitute less than 5 per cent of renal neoplasms The authors believe that all cortical tumors, whether they occur in childhood or in adult age, arise from the same nephrogenic zone

They found that Wilm's tumors occur with equal frequency on the right and left sides and are as common in females as in males. The diagnostic tests employed by the authors are pyelography, the Aschheim Zondek test, and a course of deep X-ray therapy For nephrectomy, they prefer the abdom inal or transperitoneal route. A permanent cure is obtained in only from 5 to 7 per cent of cases, local recurrence being the rule.

The authors state that hypernephromata anse near the renal capsule in the cortical area of the kidney, and it is now conceded that most of them are carcinomata arising from the epithelium of the renal tubules rather than from adrenal nests

In conclusion the authors state that their study seems to indicate that the variations in structure which make for separate types of tumor are the expression of various rates of growth and the extent of differentiation achieved by the individual form of tumor rather than an indication of an origin from separate and distinct tissues

FRANK M COCHEMS, M D

#### Bugbee, H G Ureteral Occlusion Following Radium Implantation into the Cervix J Urol. 1934, 32 439

The author reports eight cases of ureteral occlusion following irradiation of the cervix for carcinoma All but one of the patients were admitted to the hospital for vaginal bleeding and in the cases of all but one biopsy disclosed a squamous carcinoma of the

cervix All were treated with radium. In all but one the radium was inserted into the cervical canal. In three, radium needles were introduced also into the cervix Five received deep X-ray therapy in addition In four cases the carcinoma extended into the vaginal wall. In no case were there evidences of metastases or urinary abnormalities at time of the first irradiation. The ureteral obstruction was bilateral in one case and unilateral in seven. In six. the functionless kidney was removed from five months to nine years after the irradiation. In two cases coming to autopsy the occlusion was found to be due to a carcinoma which had extended or metastasized to the ureter. The importance of a urological follow up of patients receiving radium treatment is emphasized. Andrew McNally, M D

#### BLADDER, URETHRA, AND PENIS

#### Riba, L W, and Christensen, F A Urinary Bilharziasis J Urol, 1934, 32 529

The authors describe urinary bilharziasis and report a case of the condition. They state that the disease is rare in the United States but endemie in parts of Africa, Asia Minor, and southeastern Lurope The causative organism is the schistosoma hæmatobium

The typical mucosal lesions of early hyperamia with ædema followed by the appearance of pale yellow granules surrounded by byperæmia occur usually in the vesical neck and trigone Later changes may produce grayish nodules which may coalesce to form a bilharzial node The latter may be followed by ulceration or may become calcified and remain chronic. Tubercles may be mistaken for acid fast lesions Papillomata may be formed Submucus lesions may form with resulting fibrosis and calcification leading to the development of hypertropby and trabeculation due to difficulty in mic-Carcinoma in conjunction with bilharziasis bas been reported Urinary symptoms develop in from three to six weeks after the toric stage of the disease. The most common urinary sign is hæmaturia. The diagnosis may be made by direct examination of the urine and cystoscopy

Treatment with antimony and potassium tartrate has been replaced by the use of fouadin DOVALD K HIBBS, M D

#### Kretschmer, H L Diverticulum of the Bladder in Infancy and in Childhood Am J Dis Child, 1934, 48 842

Kretschmer reviews nineteen cases of diverticulum of the bladder in infancy and childbood which he collected from the literature and reports six cases of his own He considers only cases up to the age of twelve years In the collected cases the ratio of males to females was 11 1

In discussing the etiology of the condition the author reviews the various arguments advanced to prove that the diverticula are congenital or acquired He calls attention to the presence of urethral or

vestasi neck obstruction in the great majority of cates, especially those of adults, but driet three cases reported by Hyman in which careful examination ideal to reveal obstruction. If attest that a his to find the contraction is attentioned to the concile of the contraction of the contraction of directions of the but we do the contraction of a superpublic same which disappears on cathetersation and it associated with dribbling and difficity in critical contraction.

Associated changes such as thickening of the bladder all, obstruction at the such of the bladder by contractare or urefural valves, and secondary distation of the custers and kidneys are common Many cases show also associated congruited accouaince, chiefly of the urinary tract. The disposis is established by cystoscopy and cystography. Intervences uropraphy has anoptised it considerably

The treatment consists in raderal removal of the diverticulum and any obstruction that may be present, gradual decompression of the bladder and stabilization of resal function. If necessary a preliminary cystostomy should be carried out. Extra J. Saurera, M.D.

Franceschi, E. Radical Curettage of the Posterior Urethra (La curettage radical de l'arctre posterione) J d'arel el chir 934, 35 93 197

By radical curectage the a thor means destruction by electrocongulation of all diseased parts of the posterior arethra which are visible on cratoscore examination between the membranous aphineter and the venesi neck, including the versmontanam. If necessary the procedure may be carried out in energl ecencie. Electrocoagulation was first used by Franceschi so 919 for treating taxes of posterior urethrites which failed to respond to ordinary methods. Good results in such cuses led him to practice systematic destruction of the vernmontanum in the most severe cases. This was done to render the profess of the execulatory ducts visible and make sure that as entereed, inflamed, ordersatwas verumoutagum was not obstructing them and preventing the dacharge of secretaous or drastage from diseased seminal vesicles or prostate. In this article branceschi reviews 100 cases in which the procedure was carried out reporting 18 of them in considerable detail In all, there as extensive outhological chapper in the verumontanum and the orniers of the saculatory ducts are enverble. On the basis of the cristoscopic appearance if varieties of cramontan in are recognized ( ) cystic, (s) in filtrated, (3) scierotic, (4) mixed (cystic and infiltrated) and (c) absent.

The natical carettage described it carried out on imbiliatory patients bedried anisothesis. The pre-operatio preparation consults of a prehimitary temporary sententiation of the activity understands that procedure werehove careal uniquition to does with the procedure werehove careal uniquition to does with the control of activity. A metallic protestic electrode of then inserted and it can sel precent provide on their unduring real are doubty it

atilied around it. While this solution is retained by an elastic clamp, a disthermy current of from the to 400 ms. is passed through the electrode for tra minutes. Such treatment given twice daffe for free five to ten days results in almost perfect steeling tion of the operative field. Prior to the customeir examination the arethra is explored this boupe à boule and the prostate and scapinel vesicles are examined by palpation, always with a known mantler of find in the bladder. For asseshed the anthor makes up a stock solution of 5 per cent novecafe with so per cent chloretone to luch 50 drops of a 2.20,000 solution of advention are added for each 100 c cm. Ten cubic mentimeters of this solu tion deluted so it contains a per cent of nonocase are instilled and retained. Every five misutes to c. cm. more of an increasingly stronger solution are instilled natil, at the end of half as hour, to conhave been injected, the last 10 c.cm with at least a a per cent content of novocala. The MacCarthy c) storcore is then introduced. After careful larger tion the congulation is started. It is begun at the vesical neck. All tissues which appear absorate are treated with the weakest current possible. If bleed ing is not excessive and the patient stands the precredure well, the arumontaneous is consulated last Otherwise it is treated at a second seaper. Following impution of the operative feld, the scope is removed. the patient is instructed to void and a per cred acrocain is instilled and left in for ten schules. The patient is then permitted to go home but is told to esturn alter twenty four hours for irrigation and the instillation of neverals if that should be accessed

After six or serve days be discharge has resulty subsided. A Systoscopic cramination is then most for observation and, if persuancy adultant tens to the first present of the motion in this period is remarkable. If the versions into the redstroyed, the ordines of the placulatory ducts and often of the stricked are while. We because of the stricked are whiles the present of the stricked are whiles. The remark the same that the product of the same that adequate during of the present and verden is possible. During the later stage of the treatment notices in not flesholden as it can a

physiological complement to massage In the second part of this report there are eight colored plates showing the condition in some of the cases reported in the first part. This part of the article consuts of a critical analysis of the rationals of the procedure and discussion of the types of cases on which the method should be used and the reactions to be expected. The author re-emphasies the fact that irrogations, disthermy and prostation somege will accomplish little if free draining from the prostate and scannal calcles is presented by obstruction of the energlatory docts by the docs of verwinonianum. He discusses in detail the 5 72rieties of veramonianura and the reaction of each to congulation. The true cystic types are treated most easily as they collapse with a crackhag sound with one application and do not trud to bleed infiltrated types sociude hard and soft types. The

former feel like a solid tumor when touched with the probe and are rather difficult to destroy, several seances usually being necessary. The soft infiltrated types are cas) to destroy with minimal currents, but bleed abundantly The sclerotic types are irregular and show numerous whitish scars Coagulation of these types causes severe pain, requires nearly twice the strength of current as congulation of the infil trated variety, and tends to be complicated by postoperative harmorrhage. The mixed type of The mixed type of postoperative numorrnage inc mixed type of verumontanum consists partly of cysts and partly of scarred areas. The verumontanum was absent

In conclusion the author discusses the appearance in two of the 100 cases reviewed of the posterior wrethra following redical curettage

## Graves, R C The Treatment of Mallemant Disease of the Penls J Urd, 1034, 32 501

Carcinoma of the penis is relatively rare, 18 it is usually radioresistant reliance must not be placed on radium or X ray irradiation for cure Partial amputation is satisfactory when it is possible. In many cases the ridical operation may be modified to ad vantage The author describes a modification of the classical radical operation which he has found very

A low suprapubic vertical skin incision is made and the lower end extended around the base of the pens The scrotum is not bisected. The amputation satisfactor) of the corpus spongrosum is done well away from the tumor with a high frequency knife. The urethral tump is left long enough for transplantation into the portroom with a serious transplantation into the perneum without tension. The urethri is dis sected from the corpora until it can be brought out through a perineal stab wound The corpora are amough a permean stab wound the corpora me amputated near their attachments with a mildly coagulating current Closure is effected by suturing the middle of the control of the middle of the control of the control of the middle of the control of th the middle of the cut edge of the scrotum to the apex of the suprapubic incision. The gland dissections are carried out through separate incisions made parallel with Poupart's ligaments to within one fingerbreadth of the spine of the pubis where they are curved downward and outward across the area of the femoral triangle. The operation is followed by high-voltage X ray therapy

Kirwin, T J The Treatment of Prostatic Hyper-trophy by a New "Shrinkage" Method J GENITAL ORGANS

High frequency, currents are used in medical practice for (1) diathermy, (2) coagulation or destruction of tissue in situ and (3) excision and removal by a cutting current The difference in these effects depends upon the amount of heat generated in the tissues, and this in turn is governed by the

Non destructive shrinkage is a heat treatment with the high frequency current in which a given current density applied current density is applied to a measured area of

tissue for a definite length of time. The unit of measurement of the current density is the "millimil" The depth to which the heat will penetrate during a

given time period can be predetermined

Such thermal shrinkage should not be confused with electrocorgulation or with sulguration as both of the latter are destructive. The shrinkage method withdrives flind and coagulates albumin so that the treated tissues are reduced in volume and changed in consistency The temperature within the tissues in composition of degree which fulls living adenomatous cells, but does not injure blood and lymph vessels. The object is to carry the heat treatment beyond the point of tolerance in the unancesthetized patient (in diathermy), but not to the point of tissue de

This method is new only in the better control of struction, as in coagulation the amount of heat applied. By the coagulation of albumin and evaporation of tissue fluids, the gland can be greatly reduced without subjecting even the most debilitated patient to the chance of surgical

An instrument designed for the efficient application of this procedure is described and illustrated, and a number of cases in a high it was used are cited shock

Caulk, J. R., and Harris, W. A Study of the Com-parative Effects of Various High-Frequency Currents and of Thermal Cauterization in Prostatic Resection J Urel, 1934, 32 449

Because of the present popularity of transurethral operations on the prostate, the authors deemed it important to investigate the effect produced by high frequency currents and thermal cauterization The heat produced in gelatin, meat, and living tissue by a cutting high-frequency current and a coagulating current was compared with the heat produced by the thermal cautery by means of a thermocouple at varying distances from the electrode or cautery The effects of such currents on lining tissue were investigated also microscopically to determine the depth of necrosis and tissue death It was found that the heat produced and the

depth of necrosis were greatest when the cutting high frequency current was used, less when the congulating current was used, and least when the thermal cautery was employed

The authors conclude that the removal of prostatic tissue by excision followed or preceded by coagulation or removal with the cautery is much safer than the use of any apparatus in which a highfrequency cutting current is employed THEOPHIL P GRAVER N D

Zephlrido do Amaral The Treatment of Varicocele by a New Surgical Method (Traitement du van coccle par une nouvelle methode chirurgicale)

J d'urol méd et chir, 1934, 38 249

Attention is called to the unsatisfactory results obtained by previous standard operations for varicocele in which venous ligation is done. Atrophy of the tenticle and subjective symptoms of various types re frequent. The author is of the opinion that the two major requisites for soccessful results are (t) an effective, simple orchidopery and (s) distinution or suppression of the remons stans without mutilation of the vascular system or disturbance of the notation of the tenticle.

He describes in detail a technique be has pretously described and did minor modification. This technique, which is simple, is shown by Rhutations. It consists seemfally of the Basidal operation for hereits everyt that the varience with an extrasected from the cord and brought out in a loop through the aponeurous of the emersal oblique for modified to the original facilities. The cord as post modern to the original facilities. The cord as children as in the classical Basidal operation Origintologies as in the classical Basidal operation Origintopery's doses by lavarting the vagnalis as in the laydrock operation.

routine procedure by the author and his colleagues. It is recommended especially for cases in which there is coexistent hernia or hydrocele.

Herger C. C., and Thibaudeau, A. A.: Teratorns of the Testis. (m. J. Comm. 014. 3.5

N THAT A WORLDE, M.D.

The authors review fifty-our cases of malignant disease of the teaticle in which historiques steelers were marked oring the least reventy years. It the State Inselt t for the Startly of Mariguant Disease, Bot Isla \ These included ever cases of emissiant terstooms with adult features, t only cases of emissional certificions with adult features, t only cases of emissional certificional servenices in seventiere cases of embryoast learning with jumphond ettomas, and elevers cases of embryoast deconcernations.

Of the seven patients with malignant tensions with adult features, all had metastases at the tree of their admission to the hospital. For lare deel, one developed metastases after X-ray therap; and one, who was eleven months old: hen admisted to the hospital, remains again they wars after treatment.

Of the twenty patients with embryonal carranges (acminoma) all but one had metastases hen admitted to the hospital Sixteen hat ded, two are still under treatment our cannot be traced, and see

has been well for ten years

Of the seventreen patients the embryonal racinoms with lymphoid strooms, the whoe lover free from metastasses ben admitted to the loopstale are able was ded from once t rightly sear after to ment, and of the eight who had metastasses ben they entered the hospital, five are living after postentered the hospital, five are living after postranging from one year to ten wars mace the treatment.

Of the eleven patients—the embryonal scenecarchoma, all had metastases or a local recurrence when they entered the hospital and tes are dead

No cases of chonosepithelions were seen. The treatment was simple, countring of orche

ectionsy followed by deep C-ray therapy is me most cases the operation was performed showher, the irradiation therapy was not given until several months after the surpical treatment.

Of the thirty-six patients who could be transl three years after the tree tment, thirteen (56 per cost) were found above

In the prognous the determination of the cocretion of Prolan A in the crine is of importance. If the trustment produces and mutatains a low level exercises of Prolan A, the prognosis is more spt to be favorable for

# SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Fragilities Ossium Tarda Bril 1 Surg, Fracer, I

Fragilities oscium tirdi is one of the best known and most constant forms of a condition of congenital and most constant forms of a condition of consensus intentiences of bones known as osteogenesis from perfecta. In this form there is a period of from pencen in our roum energy a pence occur readily but are followed by a normal union \( \second pc riod, beginning at puberty, is characterized by extreme sclerosis of the bone. The ears are also extreme sciences of the osteosclerotic type result ing, and an arcus senils is common. If the patient survice the first period, he may expect to reach an

Characteristic features of the disease are a deep hlue color of the edery and broadening of the skull The author reports in detail the pedigree of a family average age of twenty members representing four generations

of these, seventeen had deep blue select ten had on cheek, seventeen and deep plue deer (hemical and five were deaf studies of the blood revealed no abnormalities A hormonal disturbance is suggested as the ctio-

logical factor, but its nature is unknown

Santh E Osteomyelltis in the First Years of Life (L'osteomielite nel primi anni della vita)

This report is based on 366 crees of ostromy chitis in children under eleven verts of age who were ad mitted to the Surgical Pediatric Clinic of the Royal University of Florence in the period from 1900 to The diagnosis was made in the first year of life in 48 c15e5, in the second in 22 in the third in 17, in the fourth in 43 in the fifth in 36 in the sixth in 25 in the seventh in 50 in the eighth in 51 in the ninth in 30 and in the tenth in 35

The bacteria found most frequently in this con it was made in the first month of life dition are streptococci diplococci and diplostrepto cocci Less common are staphylococci colon bacilli, causes of osteomy elitis in infants are infection of the and the hacillus facults alcaligenes child during delivery, infection of the cord, mastitis in the mother, infection of the infant's skin, respira tory infections, and syphilis. In 2 of the cases reviewed the condition developed after vaccination viewed the condition developed after vaccination against smallpox Santi believes that in these in

The infection is usually blood borne and involves stances it was due to lack of asepsis epiphyses, the metaphyses, or diaphyses depending largely on the age of the infant. In the 87 revened cases of children under four years of age, 100 foci

or oscionicinis were round because of the peculimites of the circulation in these growing portions of the bones The upper epiphysis of the femur of the nones the upper epiphysis of the venture was the site of ostcomy clitts in 12 instances, the lower epiphysis of the femur in 4, the upper epiph tower epiphisms of the femal in 4, the upper epiphisms of the humerus in 3, the lower epiphisms of the humerus in 5, the upper epiphysis of the tibin in 2, numerus in 5, one upper epipinysis of the tibra in 3, the upper the lower epiphysis of the tibra in 3, the upper epiphysis of the ulng in 1, the lower epiphysis of epipms of the unit in 1, the lower epipms of the libula

Because of its frequency and the many studies of the problem Santi discusses in considerable detail or the promein of the hip with special reference to osteomychus of the hip with special reference to osiconvenus of the hip , the special reference to whether the lesion starts 15 an infection of the Shecther the lesion states is an intection of the bone He cites previous work of his showing econdarity the enes previous work of the anomaly that in nurshing purulent arthritis may occur with out involvement of bone He states that osteo our involvement of pone common at the age of six months, but may become manifest very soon after birth. The lesion commonly produces a de-The lesion commonly produces a deformity of the head and neck of the femurand the rectabulum with resulting dislocation of the femura The dislocation may be confused with congenital dislocation of the hip While the epiphysis is the most frequent site of excessions above the content of the hip while the epiphysis is the most frequent site of excessions above the content of the hip while the epiphysis is the most frequent site of excessions above the content of the hip while the epiphysis is the most frequent site of excessions above the content of the hip while the epiphysis is the most frequent site of excessions above the content of the hip while the epiphysis is the most frequent site of excessions above the content of the hip while the epiphysis is the most frequent site of excessions above the content of the hip while the epiphysis is the most frequent site of excessions and the hip while the epiphysis is the most frequent site of excessions and the hip while the epiphysis is the most frequent site of excessions and the hip while the epiphysis is the most frequent site of excessions and the hip while the epiphysis is the most frequent site of excessions and the hip while the epiphysis is the most frequent site of excessions and the hip while the epiphysis is the most frequent site of excessions and the hip while the epiphysis is the most frequent site of excessions and the hip while the epiphysis is the most frequent site of excessions and the hip while the epiphysis is the most frequent site of excessions and the hip while the epiphysis is the excession and the hip while the epiphysis is the excession and the hip while the epiphysis is the excession and the hip while the epiphysis is the excession and the hip while the epiphysis is the excession and the hip while the epiphysis is the excession and the hip while the epiphysis is the excession and the hip while the epiphysis is the excession and the hip while the epiphysis is the excession and the hip while the epiphysis is the excession and the ex after birth most frequent site of ostcomy chitis in the first years of life, the body of the draphysis is a common site of breterial emboli because of its abundant blood or precessar empore because or its abundant brood supply. Involvement of the metaphysis is frequent both in infine, and after the second year of life

Santi next discusses osteomy elitis in the diaphy; ecs of the long bones and presents clinical notes and roentgenograms made in a case of that condition He states that ostcomy chitis in infants may start ite states that osteomyentis in mants may start also in the metaphyses. There it runs a rapid dealso in the metaphyses the author shows by roent-

Santi emphasizes the great value of roentgenog raph) in the diagnosis of osleomy chitis and reviews some of the roentgen findings. He presents statistics genograms some of the focusers with which the disease is localized in the various bones. In the 87 reviewed cases of infants under four years of age the 100 foci rere distributed as follows disphysis of femur, 24, rere distributed as tonows displays of tentus, 24, epiphysis of femur, 16, diaphysis of humerus, 6, epiphysis of humerus, 8, diaphysis of tibia, 7, epiphysis of tibia, 7 diaphysis of riduce of countries. epiphysis of tibia, 5, diaphysis of ridius, 5, epiphysis of tibia, 5, diaphysis of ridius, 5, epiphysis of ridius, 5, epiphysis of radius, 11, diaphysis of ulna, 3, epiphysis of ulna, 1, diaphysis of fibula, 2, epiphysis of fibula, 1, mandible, 6, maxilla, 5, rihs, 4, ilium, 2, ischium, 1, metacarpus, I, astragalus, I, and metatarsus, I Santi states that the difference in the distribution in the adult and the cluld are due to differences in the degree of development of the bones

Attention is called to the high facilities and mortality of esteomyshibs of the marilla due to infection from the mouth or some For this conducton Santi advisor early conservative treatment with facilities of the leidon perferably through the mouth.

In infants of compatible runs a varied come with a multitude of purpoisus. Scatt compares the symptoms with those occurring in adults. He states that in markings very facile forms with fatal specificants are not uncommon and the infection may be at turbeted by the physician to other than the true case. In newborn and young infants becteris may netter through an integrification wound and produce outcompellits with general infection or a localized concernity. Wilds prostinger examination is of great aid in the disgnostic, outcompellits in our necesnity ruled out by a negative reconsignorum.

In nursings the course of the disease is generally faster and more destructive than in older children. The prognosis is grave both for his and function

Of the \$1 children under four years of age whose cases are reviewed by the author 30 were carred, 41 died, and to could not be traced. In the 48 cases of children under our year of age the mortality was 30 per cent (47 deaths) in the as cases of children two years old, it was 43 per cont (1 deaths) and in the 7 cases of children 3 years old it was 3 per cent (4 deaths).

The instancest should be directed first of all to keeping the child in the best possible general condition. For this purpose injections of from 5 to come of material blood or 3 dimes on alternate days are favraisable. Surporal treatment should be more conservative than in the cases of schild. Supporation abould be treated by tackion and draftness, in less server cases the pattern should be written and in conservation of the contract cases the pattern should be written and in the boson may be trajuned a Artherite is treated by arthritority with or willout distinger, depending on the contract of the c

4 D. Orlandon Denoi

Gwynne, F. J., and Robb, D. Cafearson Deposits in the Supraspinatus Tendon and the Subacromial Burne. Australia & New Ladard J. Swit. 034-4. II.

The case of deposits in the supraspiratis tender of subscrossal borns is taknown. Thums producing an effusion of blood with this subsequent deposition of line sails as generally consistered to be the most important factor. The deposits in the spiral by some: It is capitalle of rapid formation and dispersional control of the deposits in certain cases. The deposit may act as a foreign body producing secondary inflammatory reaction.

The lesion is most common in females and is sometimes bilateral. The patient may complain of acuts or chronic shoulder pain. The pain is often most marked on abduction and external rotation of the arm. In chronic cases it may be amodated with limitation of motion and mescular atrophy Teaderness may be marked over the greater tubersely of the humerus. The diagnosis is made from roset ansonaum apicy teams obsides or dejections of posits in the angle between the head of the amores and the acromium. These deposits vary from a few millimeters to a few centimeters in size. They may overlie the humeral head so that they may easily be overlooked. When such deposits are suspected, the central ray should be directed o degrees toward the fact and so degrees outward to being into profile the greater tuberouty and the site of the attachment of the supragainates tenden. Roenternorrans cases siways be depended pon to differentiate epanties In the suprespension tendon or subscroudal bens from opacities in the joint cansule.

The treatment is either conservative or simpled. Conservative Dreatment includes rail, duthersy and massing. Of the time cases reported in the article, also were treated conservatively with set infections was prolonged and in one a recurrence deviced.

Creater C. Carr. M.D.

Creater C. Carr. M.D.

oped Creener C. Gov., M.D.

Lansordi, B. A Contribution to the Discoules of

Expertusio Burnata of the Scapula (Castrione alla cachina della secsion burnata della ampela) Chie d'organi di messarata, 934, 9 75

The pathology of smotonis bornats is not so will known as that of cartifications exceedes. Learn'd documes the cricking pathology, and trustment at the discess and reports a case of lavolvement at the scapula. Such involvement and superially the presence of a pseudo-articalition is the scapula is trutained to the control of the control of the control of a pseudo-articalition is the scapula is trutained and the control of the control of the control of a fundamental control of the control of the control of scales.

The patient was an otherwise acreal would recently even years of age who air noming previously scenared an islary to the back which do not hereby the acrealer argion. The absolute this "previously proposed and the provider and the second of the arms and the second distribution on the sem and foundation of movement in the acquisionness island recond previously. Christian according to examination revealed record previously as the according to the arms and a recording to the according to the accor

At operation the cartilaginous border of the growth was found covered by a thirth layer of shows tussee which was inserted into the the This con tuned borns had with endotherium and the with symovial from The burns was affected on one sade t the excettosis and on the other side to the the

According to Lunards theory the contour developed from the applicytes on the vertebral sample of the sceptia. The formation of the burse was fee t. the continuous trauma, the inchemia, and the desplacement, tropky and lipsefaction of the kyperplastic connective tissue. Its primary origin was a dilated lymph space. The theory that such exostoses originate from the epiphyseal cartilages rather than as lateral proliferations from the joint cartilages is based on (I) their typical site—in flat bones in proximity to the marginal epiphyses, often at a distance from the joint, (2) their limitation to parts of the skeleton having a cartilaginous phase of development, (3) their appearance during the growth period, and (4) the variability and irregular arrangement of the cartilage cells in the exostosis as compared with the articular cartilage

The diagnosis is generally not difficult. It is based chiefly on the presence of a peduncle (which usually rules out sarcoma), the youth of the patient, the arrest of the tumor growth on completion of the patient's growth, and the origin of the tumor at the site of an epiphyseal cartilage The diagnosis of a bursa is exceedingly difficult even with roentgen

Removal of a scapular exostosis is always advisable because of the pressure necrosis of the ribs examination The article contains a roentgenogram and photographs of the tumor, and is followed by a bibliography

## Kistler, G. H. Sequences of Experimental Infarction of the Femur in Rabbits Arch Surg, 1934,

A number of lesions etiologically obscure but with certain characteristics in common have been found in various bones Among these are, Koenig's osteochondrus dissecans of the median condyle of the femur, the osteochondritis deformans juvenilis of Legg, Calvé, and Perthes, Osgood-Schlatter disease of the tihial tubercle, Sudeck's acute atrophy of bone, necrosis of the tarsal navicular bone (Koehler's disease), the hodies of the vertebræ (Kuemmell's disease), the heads of the metatarsal bones (Freiberg's disease, also described by Koehler), and of the carpal lunate bone (Kienbock's disease), and occa sional foci in many other bones, particularly those of the lower extremity After reviewing the literature the author sought to accumulate further data on the pattern of the circulation in hone and the nature of infarcts in this tissue as a possible explanation of osseous necroses His studies were made on rabbits

Since simple ligation of vessels alone is unsatisfactory, bland emboli consisting of a 2 per cent suspension of charcoal in a physiological solution of sodium chloride with a 5 per cent content of acacia were injected into the nutrient artery. Infarcts were produced in the femora of young and adult rabbits by this intra-arterial injection and by the interruption of one or more nutrient vessels outside the cortex of the bone. The production of necrosis of bone hy the intra arterial injection of particulate charcoal supports the theory that anomic infarction may occur in these tissues despite their great vascularity It demonstrated also that the vascular system of the femur of the rabbit is closed, otherwise such emboli would be only foreign bodies disseminated in the

tissues without the production of nutritional dis-The infarcts formed were intimately associated with the metaphyses of growing bones This finding is in agreement with the general theory that the cartilage epiphyseal line is often the site of turbances osseous lesions considered as necroses. The difficulty encountered in producing infarcts in the adult femur and the tendency of infarcts produced in the adult femur to he near the center of the shaft when the injection was made into the nutrient artery to the shaft emphasize the alteration in the circulation that occurs when the epiphyses and the diaphysis unite When the continuity of hone is interrupted, the severed portions can no longer depend on each other and therefore require other sources of blood supply If the collateral circulation is madequate, nutritional changes follow This is the condition in so-called aseptic necrosis of the head of the femur which occurs in adult as well as growing femora. The infarcts produced in rabbits demonstrated absorptive reactive changes but no sequestration of dead bone The necrosis and reactive changes that occurred in

from twenty hours to one hundred and fifty days after the infarction are described and correlated with the more common clinical entities associated with necrosis of hone

An Anatomicofunctional Study of the Round Ligaments of the Femur (Note anatomofunzionali sul legamento rotondo del femore) Chir d organi di movimento, 1934, 19 207

Cella reviews briefly the normal anatomy of the round ligament of the femur (ligamentum teres) and then discusses the peculianties of its blood supply As is well known, this ligament has, in addition to the usual network derived from the blood supply of neighboring bones, a special arterial supply—the artery of the round ligament derived from the middle circumflex artery of the femur, and, at times also, a branch from the obturator artery According to Hyrtl, Luschka, and Henle, the arterial distribution is irregular and inconstant. The variation in the relationships of the blood supply occurring with age have been the subject of controversy Cooper, Luschka, and others hold the view that the arteries are obliterated with age, whereas Schmorl has demonstrated patent vessels in the round ligament in the aged, and Nussbaum holds that the vessels may be obliterated in the young and pervious in the old

In histological studies of the round ligament in man and dogs of various ages, Cella found hypertrophy of the tunica interna and media of the artery and obliteration of the smaller vessels with reduction of the capillary supply but not of the larger vessels He never observed complete obliteration of the vessels It is evident, therefore, that the head of the femur may receive blood by these routes throughout life although the supply decreases from childhood to old age. The ligament is similar in structure to other articular ligaments, heing made up of loose connective tissue with numerous elastic Shern Cells presents photomirrographs showing the blood supply. With ags, the lygament becomes inflitted by fast and at turnes by deposits of bone. At birth, it is sell developed it grows proportionately with the head of the femor although it often bones prest infortidual variations. While some inrestinguistics have bosted its congressful absence Cells found in present in all of one occlavers. In leastive subjects it may be small and after probuged discusor in the significant of the significant of the significant in the significant infectious process such as tolerculosis, and say by the present or attenuely the metastases from cancer of the present or attenuely.

With regard to the function of the round ligament there are a theories According to x the highment has a purely methanical function. According to another it is a redimentary structure without function. According to a third, it is carrier of ench to the braid of the ferms T cells believes their, is addition to being a current of wearts, in act also as the head of the fermar it the accetabulum, the price the head of the fermar it the accetabulum.

be acetabulum Ecorys T Lenov M D

Wisheum, W. The Electic Supportive System of the Human Feet (Des classeds Startmystem des memchichen Tunes). And J. wiley Circ. 204, 34, 451.

While the arch of the foot has been attributed to the arrangement of the bory arch of the foot, the arther's product show clearly that it is doe solely 1 the plantar paid of fairty thesee. The first passes sended is formed by a paid of fit under the heel and another wides the beach of the metatransie which are connected by a thin layer of fairty tissue. This sould forms the will so three arches which give

the sole of the foot its characteristic shape The elastic supportive system of the foot is made up of the pleater epidermis, the subcitaneous fat of the sole of the foot, the aponeurous plantans, the dentar musculature, and the plantar fracta and uniments including the planter sections of the expsoles of the metatarsophalaugusi reints. This supportive system is made a unit by an intricate system of connective tissue strands which take their origin from the plantar aponeurous. Under the beel and the antenor ball of the foot the plantar epidersma is much thicker than over the arch Beneath the plantar epiderson is the subcutuneous fat which, because of its cellular and structural characteristics. is a very assential functional component of the foot The planter fet pade are made up of a system of connective tisese compartments in which the fat cells be. The fat sendal is bouted above by the poneurous plantaria, the which it is minustaly connected by the connective tasses compartment SYNED.

In the hight of these facts the problem of the seight bearing of the fore-foot assumes a new aspect. It is true that the hearth of the metatanal bones are arranged in the form of an arch, but they are thus maintained, not by ligamentous supports, but by the fatty pad under the fors-foot. This pad is now pronounced under the second and third metatamal neads, less pronounced under the foorth metatamal head, and absent under the first and fifth metatamat heads.

I enactation the author describes a new type of felay each support

(B. VALETTIN) JOHN R. BERTALE M.D.

#### SURGERY OF THE BONES, JOINTS, MUNCLES, TENDONS, RTC.

Lange, M. Artkrodenk of the Poster-Labels. Askla Joint-Theolechronal Joint-in the Treatment of Servers Multicremities of the Foot, Especially First-Post and Charlette (the Arthrodens des Maierrs antern Springerksis-Tilescharmsprokes-res Rehandlings) eres Fonverbüldingen, imbenseders des Piatt und klausfessen Überer; 934, 6 fig.

In the cases of young persons (in flat feet it is freezestly suppossible to relever the typical pain below and around the extremal lone by conservate treatment. The cases of the follows is novelgongially choosontable arthrous deformans in the saloculosmost joint (in lacth even severatem-year did persons shown a condexery. Operation showld not be desired until, as a result of incorrect and crustems cight bearing, all of the joints of the feet shows as

arthresh. The author review twenty-serves cases, so bilateral, as most of which operation was performed in the second decards of lish. I shipped the parity were barrly able to sail before the operation, as empty two are now capable of full wist, even is turning and forestry. The trekhaque used by the author is as follows:

An arch baped external largeless is sake around the overter maliculus and Zukanged risks of the personnel largest mustler it does. The treate of the personnel largest an dwelder with jector personal results and the actuard as a noner posterior site. The pount to opened and the cartillage removed. The author was passet nancements premoved craticals.

The instantal increase is made from the type the internal malledus assurancy to the head the talks. More bone is removed on the same side (talks and calcaness) than on the outer side, but on the whole the removal is done spatingly. The religious of the or riches in their correction is maded plastice of Fairs, cast she correction is maded plastice of Fairs, cast supposed for ten weed. In their caterial supposed for two weeds. In their caterial supposed for two weeds. The fair caterial supposed for the first two weeds. The arch of the cast is given cast in gate and the enterior part of the lost plastic cast in them applied not the enterior part of the lost plastic cast in then applied for four seeks, together with a subdilatory spatial. At the end of that time spatial that an orthopostal show is worn for from an seasified to year. Comficient on sometimes taken a long time.

In very severe cases it is necessary also to make the in very severe cases it is necessary also to make the arch-shaped osteotomy in the neck of the talus, arcn-snaped osteoromy in the neck of the latter remove a disk-shaped piece, and apply the latter remove a disk-snaped piece, and apply the latter to the outer side between the os calcis and the

Lange uses the same typical arthrodesis also in all cases of club-foot after the tenth year of life, whether preliminary treatment has been given or astragalus not Many adults upon whom he has operated in this way were advised previously to submit to amputation In such cases the technique is simpler because the peroneal tendons need not be divided and an external incision is sufficient. A small wedgeshaped disk of bone together with the articular cartilage must be removed from the os calcis and astragalus up to the inner side The varus position can then be corrected easily the arthrodox of the foot however more than the foot how the f foot, however, more than this arthrodesis is re quired It is necessary also to chisel out a wedge quireu it is necessary also to chisel out a weage from Chopart's joint from without. This operation has been done repeatedly for club foot with good results It is indicated for both the congenital and the paralytic types The correction of the os calcis is of decisive importance for posture and is achieved by the arthrodesis far better than by osteotomy on the os calcis (Elsner, Hohmann, and Man) (FRANZ) LOUIS NEUWELT, M D

FRACTURES AND DISLOCATIONS Milkman, L A Multiple Spontaneous Idiopathic Symmetrical Fractures

The condition which the author calls "multiple spontaneous idiopathic symmetrical fractures" and Spontaneous miopacine Symmetrical mactures and considers a disease entity is systemic. It involves the flat as well as the long bones the cortex, but slowly encircles the entire bone. Its special peculiarity is symmetrical involvement of the bones the onset is insidious, the cause unknown, and the course progressive with intermismons. The symptoms include a wadding gait, pain the lower had and local and account the lower had a local and in the lower back, and localized pain in the individual bones Physical examination is essentially negative except for tenderness, Roentgenograms show characteristic bands of radioparency suggesting complete disappearance of the bone structure The bone above and below the transparent zones looks normal except for thinning of the cortex There is no deformity until late in the disease, when displacement of the fragments may occur There is no attempt at repair The blood findings are essen

A case of the condition reported in detail was that of an unmarried school teacher forty-three years of age who gave a history of pain in the back and dif tially normal ficulty in walking for about seven years In the later stages of the disease a complete fracture of the right femur occurred and was followed a month later by a fracture of the left femur There was no family history of peculiar bone lessons The patient had been under medical supervision almost constantly since the onset of her illness

three defects were found in the skeleton author reports the laboratory data, the findings in author reports the lautolatory data, the minungs in serial roentgenograms, and the results of the post-mortem examination. The report of one patholomortem examination the report of one patients for the patients of the patients gist (Ocsimicater) was osteomalacia in a com-of another (Custer) was osteomalacia in a comparatively rare semile form. A somewhat similar case has been reported by Michaelis

The author discusses the differential diagnosis at length He states that the condition must be diflength the states that the condition must be dif-ferentiated from late rickets, osteomalacia, and rerenuated from face fickets, oscollation, and fragilitas ossium So far as could be determined from pathological study, the parathyroid glands are from pathological study, the disease is not involved. rrom patnological study, the parathyrolu gianus are not involved. The course of the disease is not influenced by heliotherapy or Vitamin D. The postnuenced by neuroinerapy of vitainin D. The post-mortem demonstration of increased vascularity at the zones of transparency suggests a trophic dis The Calcium turbance

Stream as Concerned with the Healing of Frac-Moore, J J, and De Lorimier, A Am J Roentgenol, 1934, 32 457

The authors present the results of their investigations of the healing of fractures of rabbits when (1) the general tissue balance was left within normal limits, (2) there was a shift to the acid side, and units, (2) there was a shift to the acid side, and
(3) an alkaline balance was produced. The three groups of animals were provided with ample calgroups of animals were provided with ample car-cium, phosphorus, and vitamins and at frequent cum, phosphorus, and vitamins and at nequent intervals were given calcium gluconate, lactose, and cod liver oil by intubation. In the earlier experiments the tibia was broken, but in the later experiments the tibia was broken, ments the fractures were produced in the metalar sals in order to diminish factors which might influence healing such as hæmorrhage and the inter-Throughout the experiments position of ussue throughout the experiments roentgenographic studies and biochemical analyses position of tissue

In the first group of experiments homogeneous ossification occurred at the fracture site. In those of Group 2, in which sodium bicarbonate was added were made to the diet, an elevation of the hydrogen-ion concentration and carbon dioxide and a reduction in the calcium of the blood were found. The unnary excretion of calcium and inorganic phosphorus continued at a minimum Roentgenograms showed a less uniform ossification of the callus than in the ress unnorm ossendation of the canas than in the controls. In the experiments of Group 3, in which ammonium chloride was added to the diet, there was a reduction of the hydrogen-ion concentration, carbon dioxide, and calcium of the blood The urine showed an increased excretion of calcium and phosphorus Roentgenograms disclosed very feeble at-

The authors believe that in Group 2 the "calcium tempts at ossification of the callus stream" was directed toward the bone and in Group 3 away from it In conclusion they say, "In brief, this evidence emphasizes the fact that for assimilation of calcium and phosphorus the chyme in the small intestine should be acid, but for the utilization of these elements, the tissue balance should be alkaline

INTERNATIONAL ARSTRACT OF SURGERY Dodd, R. Geogrepe Following Fractures (Exclud

tog Cas Gengrans). Bell J Sart 934: The author presents two cases of his own and a too accour present two cases or me own and a extremity occurred after a fracture, and telephinter the brancosts accorded cases (actors of aprel a one reported in the period from 185 to 900 ar in the period from 1901, and several (actualing the person from the period from 19 8 to 1935. Most of the subjects were men in the active se the lower extremity was involved about twice as often as the upper. The fractures most often folhaved by gangiene were those of the fiscal third of sower by gamprias were cause or one vacual training the fences and those of the proximal half of the the senser and those to the procures make to the humanus. Calcification of the artery was mentioned as predisposing factor in two cases, syphils in two and dislectes in one The most frequent cartising casse of the gampeos was continuou or traving of cause or one gaugetone was continuous or training or the rasia satury with thrombosis. The time of oract of the shighten fler the injury was between three or the sample on the most irreferent time was the and we may a low most method was been four case. In the cases in which the ordicons was recorded the mortality was 14 per cent. The author recording to the fact that to all of the cases care attenued to the last mac in an or the exact so sected cases reduced in the baried from 500 to this seven cases reported in the paramo from the or ayro polote door querp occurred to time out of ter-

Dodd documes the ways it which the blood out by may be intermibted (repriese, thromboss). H by may be intersupped trapring coronically in boosedions by knoments to poose or pa season of branches arining close together the more likely it is

to so mare.

He mentions the following eight diagnostic signs beenes or dimension of the arranal pulse belaw the senson () alteration of sensation, (3) bianching and cyanons of the harb, (4) loss of muscle boast. (2) peniatours (9) poet tengeness ones the penintum at an example of a second of the second o power (s) memorated (o) but (o) management over the point of injury (7) gradual full in the blood pressure of the lumb as compared with the skapsing proof becames and (8) the neartean aim one graphic demonstration of calcifold arrenas assitut that ayen such rikus and shubboars occur, beating of rescribed errorses reand do not quickly sounds the treatment indicated is early operation with repeat of the arrery if possible and removal of any thrombes that may be found becaused a macheciony bose the and of the injury may be done to came temporary resoculate.

Canarero M An Unressel Lizzation of the First Metacarpai (So C can rare besistance del natacarpae) Falcia Rosse, 534 41 sea, ther BARRAR B STEERE M D

In a review of the inecature Canavero found that solar disjointion jumped to the gust metroxibal pour year disjointion jumped to the gust metroxibal course is seak jutaching. In some of the crace tabouted is sets multiple disjointions of other distrained in some or the cases reported some I the dislocations were completed by free some Up 1 and there are reports of only therey

five dislocations limited to the first meteoscopal bose These were accompanied by invalvement of the traperium and in the majority the discouler was from a dorsel direction. Paimer and radial distor-

The case reported by Casavero was that of a boy eighteen years old who sentained as injury to the cannot write polying a matchiock which calleded The lesions consisted of a large lacerated and one timed wound involving the act parts of the palma and dozel aspects corresponded to the first letter and corner supreme transparent to the wind was sucher digital water too same t too wise was aware had described for a libear prolongation toward the base of the first next carpet. It was beind in a newtion midway between promotion and sequention with single domination. The last four figure were with sured. The thumb was sent force ages and abducted, and slightly rotated toward the other ad-Prosture on the rather was paints). The hand had assumed the position of an anatomical spell ber Presence in the region of the first metworked some our creased translating pain Active movement with questi and anies question ass bossips, pet lassace monament was jumined and summanded by here The first and property was accombanced at her paperal tountenediates takening question of the first and second phalanges of the thome and radel delication of the first metacaspal book, Under stirl chloride anesthesia reduction was accomplished by traction profess to the thamb alight however and palmer rotation and traction of the sager, beimet became on the gast metroschaf and cons terpresents on the docum of the trapedum The reduction was completed without difficulty and removable was compacted without conceasy assumed by immobilization. Rossigmograms showed it to be successful

The author discusses the pathogenesis, disgrada, and symptoms of radial trislocation of the first metacarpal bone

Henry A. E., and Bayend, M. Fracture of the Female with Luxuities of the Ipulisters) Hip

The authors present a way careful and detailed analysis of all cases of fracture of the fenant another sted with legation of the hip that they are able to discover is the literature Forty two cases are tabulated, including two which ere seen at Eart of Ann Hospital in the period between 923 and 82? Three others are impulsated only is the footness horaine the disgness was not clearly explained The fractures are divided 10to four groups fine tures of the head, fractures of the neck, fractures of the shaft, and other (smortal fractures and the ser and ago modence. Ope of imation, came training

and results are reported in detail for each group Most of the features of the shaft occurred in young patients More than half of the patients with young patterns. Alore than half of the patients who had further were under the enty prairs of go Only eight were somen Fractures of the head of the femor were associated with the greatest volence and in lour cases one soon followed by death

The luxation was reduced in twenty-two cases—
in sixteen by closed methods, with good results in eleven, and in six by operation, with good results in four. The results were poorest in the cases of such ture of the neck of the femur. Of ten cases of such fractures, the luxation was reduced in only four Reduction was accomplished most frequently in the Reduction was accomplished most frequently in the cases of fracture of the head of the femur. The authors say, "It would appear then that if a patient authors say, "It would appear then that hip luxation or sustains a fracture of the shaft with hip luxation of sustains a fracture of the shaft with hip luxation of sustains a fracture of the shaft with hip luxation of sustains a fracture of the shaft with hip luxation of sustains a fracture of the shaft with hip luxation of sustains a fracture of the shaft with hip luxation of sustains a fracture of the shaft with hip luxation of sustains a fracture of the shaft with hip luxation of sustains a fracture of the shaft with hip luxation of sustains a fracture of the shaft with hip luxation of sustains a fracture of the shaft with hip luxation of sustains a fracture of the shaft with hip luxation of sustains a fracture of the shaft with hip luxation of sustains a fracture of the shaft with hip luxation of sustains a fracture of the shaft with hip luxation of sustains a fracture of the shaft with hip luxation of sustains a fracture of the shaft with hip luxation of the shaft

trial of closed reduction"

Of the twenty-two reduced luxations, seventeen were reduced before the fracture had united—twelve by closed methods, with six good results, and five

by operation, with three good results
In six cases of luxation associated with fracture of the head of the femur, the maximum interval of the head of the femur, the maximum interval of the head of the femur, the maximum interval of the head of the femur, and it is losed methods was five days. The only long between the accident and the case in which results of the femur, as of successful reduction of a luxation associated acses of successful reduction of a luxation associated with a fracture of the neck of the femur, the intervent he the accident and the reduction were thirty eight days, ten weeks, and seven months. In the eight days, ten weeks, and seven months the eight days, ten weeks, and seven months the case in which the interval was seven months reduction was done by open operation. In the cases of fracture of the shaft of the femur the luxations of fracture of the shaft of the femur five days were reduced by closed methods within five days.

In the second part of the article the authors discuss briefly fractures of the femur caused by attempts to reduce luxation of the hip Twenty-one tempts to reduce luxation of the head, seventiation fractures are reported—one of the head, seventeen of the neck, and three of the shaft of the femur teen of the neck, and three of the shaft of the manner.

Darrach, W, and Stimson, B B Displacements in Fractures of the Neck of the Femur Ann

The authors believe that in fractures of the neck of the femur the position of the head fragment should receive more consideration, that a shift or angulation of the neck fragment either forward or backward is usual, and that the relationship of the two fragments to each other is of more importance than the change from the normal position They are of the opinion that for recognition of the type of the displacement and satisfactory reduction the roentgen exposure in the anteroposterior plane should be supplemented by exposures in the lateral plane The article contains illustrative roentgenograms and descriptions of the types of displacements found at open operation The authors are impressed with the frequency of anterior angulation or a shifting forward or backward of the neck fragment in relation to the head, the wide variation in the position of the head fragment, the extreme mobility of the head fragment, especially in cases of subcapital fractures, and the fact that no one standard procedure will accomplish reduction. BARBARA B STIMSON, M D

## SURGERY OF THE BLOOD AND LYMPH SYSTEMS

Jagarrona, B. H.: On the Early Development of the Vascular System. The Development of Rhod Acts Sec and Hood Vessels in the Chorino of Rhod Acts Sec and Immune Desolution 924, 9 Fac. 8,

The purpose of the investigation reported in this article was to determine whether early embryonic vasculogenesis, including blood formation, occurs in the chornon of man

The material studied consisted of a series of so selected bordive embryos between three seets and thirteened bordive multiple between three seets and thirteened seet and the selection of the seets and with Zenter's or Hammer solution Seets of the thorn were made. The chief method of standing was the May Grown aid Giema beroeving standing was

had in an unbroken expected from the and formation at the same state of the same sta

negative reasons to ununguan cut strains of the public calls then on sencending the other. In the public calls then on "schirton the public calls the experiment of the schirton of the other schirton of the schirton of the other schirton of the schirton o

The author concludes that in very carry carry beyonde stage (the latter half of the third ech) the primitive ed blood cells organic chiefly from the mesodernal nucles of the chorsonic from Their development always about the same forerunner stages buch, up t the modile of the second em beyone month almost always terminate as set thyord cells. The serrord cells, which occur before thet time in slowly increasing numbers thereupon take the place of the schthyoid cells which are then rapadly disapposing. By the end of the second month secondary environments poem among the month reconstray expenses to the chird and fourth sented come, and curring the turn and lowerin months these in turn disappear leaving the sec-oudary crythrocytes a free field. The blood venets develop from vessel anlaren which are formed, as cereacy non vesses anagen which are formed, as described, in connection with the foretracters of the

The vasculogractic potentialities, which are all most abliquitous in quite young embryos, are con-

stantly more inactived in older embyes, the solding in the formation of two plating duringsday as eccentraling moves, an active me and as a sea eccentraling moves, as active me and as a embyence movel, the sub-beginning of the form embyence movel, the sub-beginning of the formametry one movel, the sub-beginning of the subembyer of the sub-beginning of the subembyer of the sub-beginning of the submetric or the sub-beginning of the subposed, or pairs sich have previously taken over the scaling.

Coller F. A., and Maddock, W. G. The Function of Peripheral Vancountriction, Aug. Sep. 934, co. 931

The important part played by the extremible is the double of body best in not generally stage and the content of the content of the content both by variously all of blod case of best by the body variously affect of the arrhad both by variously and to the arrhad both including and error torsact the factor process below including an extreme body for the content of the content body the arread the substantial process below the content of the

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The marked improvement in vanoquate conmore which as brought about by sympathers progressionary is distantly to interruption of the market plantage function of the extremels a larger plantages there is little evidence that the Theorem of the methods of treatment should be coding at carmed before methods of treatment should be coding at carmed out on the sympathetic nervos system.

Faron, II, H. The Treatment of Varicusties: Freingle-scale High Lifestion of the Internel Suphrnous Voin with the I Jection of Sciencing Solutions, Arch Sur. 044, 30 784

This report is based on series of 7 patients with various veins who are treated by lighton of the fractual suphenous vain combined with the injection of aderosing solutions at the Manachustin.

General Hospital in the period from August, 1931

o April. 1033

In many cases of varicose veins of the internal saphenous system the blood flow is reversed in the main trunk because of incompetency of the valves. This fact is readily demonstrated by the Trendelenburg test. Because of the high back-pressure, injection treatment is often not efficacious on account of the difficulty of producing adequate thrombosis and on account of the frequency of re-canalization when adequate thrombosis is produced. In the light of subsequent experience the author concludes from end results in 314 cases of varicose veins treated by the injection method alone which he reported previously that in at least 20 3 per cent of these cases a preliminary high ligation of the saphenous vein should have been done.

He states that in the performance of the operation it is important to divide the vein above its highest branches and at the point where it empties into the femoral vein. If a stump of saphenous vein which includes the remarkably constant 3 highest branches (namely, the superficial circumflex iliac, the superficial epigastric, and the superficial external pudendal veins) is left, the permanent success of the operation is jeopardized because of the almost certain re-establishment of varicosities through the collaterals of these branches. High ligation leaves no stump from which a thrombus can be dislodged later.

From 10 to 20 c.cm of a solution of 30 per cent invert sugar and 10 per cent sodium chloride should be injected into the saphenous vein distal to the point of division before the wound is closed

After the preliminary ligation the patient should remain ambulatory and subsequently should be given a thorough course of injections. The number of subsequent injections necessary will, of course be comparatively few as compared with the number required in cases without preliminary ligation.

The author recognizes the following 4 definite

contra-indications to ligation

1 Varicosities that are compensatory for an inadequate deep venous circulation

2 An acute inflammatory process in the groin

- 3 The presence of hæmolytic streptococci in varicose ulcers, an acute superficial phlebitis of the lower leg, or an extensive inflammatory reaction about an ulceration
- 4 Patients temporarily confined to bed, who are hable to develop untoward thromboses with later embolization

The last 3 of these contra-indications are temporary but the first is permanent

ARTHUR S W TOUROFF, M D

Smithwick, R. H., Freeman, N. E., and White, J. C. The Effect of Epinephrin on the Sympathectomized Human Extremity. An Additional Cause of Failure of Operations for Raynaud's Disease. 4rch. Surg., 1934, 29, 759

The fact that, in animals, structures innervated by the sympathetic nervous system become sensi

tized to circulating epinephrin following sympathectomy has already been demonstrated. In this report the authors present evidence showing that human blood vessels become sensitized to epinephrin in the same manner following resection of sympathetic ganglia.

Tests in a series of nine clinical cases in which complete sympathetic denervation of extremities was done revealed marked vasospasm in the presence of minute quantities of epinephrin in the circulating blood. The intravenous infusion of a 1 250,000 solution of epinephrin, an amount which causes little change in the normal extremity, is sufficient to lower the surface temperature of the denervated side as much as 15 degrees F Similar changes take place when the patient's suprarenal glands are stimulated to secrete epinephrin by insulin hypoglycemia

Identical vasospastic phenomena, which occur in sympathectomized cats and rabbits in insulin hypoglycamia, are abolished by suprarenal denervation

This hypersensitization of the arteries to epinephnn takes place only on degeneration of the vasomotor nerves. It is not present after procaine hydrochlonde block or during the first week after operation. From seven to eight days are required for its development. It constitutes a hitherto unrecognized but important cause of unsatisfactory results from operation in Raynaud's disease

SAMUEL KAHN, M D

#### BLOOD, TRANSFUSION

Jegoroff, B, and Serdukoff, G The Treatment of Werlhof's Disease with Seroplacentol, Serum of the Umbilical Cord (Sur le traitement du syndrome de Werlhof, serum du cordon ombilical) Gynécologie, 1934, 33 434

Werlhof's disease, called also "the essential thrombopæma of Frank" and "purpura hæmorrhagica," constitutes a complex and sometimes serious problem

The authors review the various theories regarding the cause of the condition. While thrombopæma is one of the chief characteristics of the disease, the authors agree with others that the diminution in the number of blood platelets does not alone explain the disease. The condition of the walls of the blood vessels and of the endothelium of the capillanes also plays an important rôle. Not only the quantity, but also the quality of the blood platelets is of significance. Recent observations suggest that there may be a relationship between the thrombopæma and dysfunction of endocrine glands, particularly the ovaries.

Goudim-Levkowitch, Smirensky, and Hennig have described a so called "menstrual thrombopæma" Hennig found that in some cases the number of platelets decreases from one-half to one-third during menstruation. According to Goudim-Levkowitch, this thrombopæma may be explained by an alteration in the rhythm of maturation of the follicle and insufficiency of the corpus luteum.

Hyperfunction of the spleen has also been found during the menses. Menstrustics may therefore be considered temporary physiological candition of the hemorrhagic duathesis characterized by decrease in the number of blood platelets and prolonged bleeding time.

In 1098 Serdukoff proposed the use of seroplacental" for the treatment of the hemorrhages of V elbet's disease "Seroplacestol is the serum of the placental blood obtained from the placental end of the umbibest cord tollowing delivery special preparation and sterillastion it is put up in

while ready for use.

A study of the action of secondacental on the organism in a large number of proconlogical discases, deliveries, poerporal diseases, and premators infants aboved that it had the following effects.

x A definite decrease in the osmoric resistance of the crythrocytes of a dynamic character. This decrease occurred within the first hour after the subcotaneous injection of the scroplacentol and per stated for forty-elast bours

 A relatively dynamic increase in the thrombocytes varying between 10,000 and 170,000. The greatest increase was observed in twenty-four hours

1 As increase in the crythrocytools of the bone purrow For period of twenty four hours beginalog with the first hour efter the injection there was n increase in the number of crythrocytes. The iscresse occurred chiefly is granulophylocytes. This reaction As especially marked three hours after the injection

4 Hestoritans The injection was followed by an increase in the coardishility of the blood which persisted for twenty four hours

5 A leucocytours. However in cases of leucopenia, it had no therapents: effect Contraction of the capillanes

7 An increase to the calcum and phosphorus content of the blood in certain cases of hypocalcomis and hypophosphatemus

It therefore produces an increase in the number of thrombocytes, acts on the electrolytes of the blood, stimulates hemotoposess and enthroposess, and exerts a stimulating bornousl influence

The authors obtained secressful results from seroplacental treatment is 1 cases of hemourhagic

duthers after all other methods had failed The first case was that of fourteen vest old girl who was suffering from epistaxis, exchymoses, and petechial hermorrhages all over the body. A probable diagnosis of essential thromboperes was made on the basis of the findings of physical examination and on the blood count hich aboved the blood platelets to number 10,000 After ansucress ful creatment with nateine, aeroplecented was given by daily extramescular injection. The daily does was mereused from 5 to 10 c cm Altogether 45 c cm were given. The epistasm, the bleeding from the buccal mucous membrane, and the formation of petechin and exchymoses slopped and the number of erythrocytes increased

The second case was that of a girl twenty years old who complehed of raginal bleeding and rocky. moors and punctate bemorrhaps in the skin. The findings of blood examination ners, homorloine. no per cent, erythrocytes, 2,010,000 lescocytes, 0,100 and blood platelets, 1,250 Treatment by delly intramuentar injections of aeropiecental was began immediately. The daily dose was increased from 5 to to c.cm. In thirty days, 255 cm were given. No anaphylactic reaction or increase in the temperature was noted. The bleeding from the comand skin stopped and the old eathymous and pe technal harmorrhages disappeared in a few days. To combat the assemia the patient was given transfusion of soo cars of whole blood. The day after the transfusion the bleeding from the sums recurred. the patient complained of beadache, peteries to peared over the entire body and the site of the transfusion should a marked explyments involving the forestm and the bend of the elbow. Following trust ment with dully injections of a com of scrophcental the harmorthages coused completely there techle diminished, and the patient left the howith to good condition.

The third case was one of melens monatoran Three days after the infant's birth profess better there occurred from the mouth. Coffee colored material and blood closs were wondted. The bemerrham persisted for four days and was followed by the avacuation of blood-stained recommen and the appearance of processe betweenhaps in the site. The findings of exemination of the blood ere hemoglobes 33 per cent, erythrorytes, coroseo, leococytes, 22,400 and platalets, rog,530 The lalant became very week and aneside. Dally injections of sereplacental, beganning with 5 c.cm gives. Altogether so cus were injected. The hamorrhages from the digestive tract storred after three days and the peterbue despressed after eight days

From these three cases and more than 100 gracological, obstetrical, and pediatric chart, the au-thors conclude that acroplacented treatment h to be preferred t all other methods for the arrest of IMAC ARDROGER, M.D. be morrhage

Giant The Treatment of Hemophilis with O.T. 10 (Veber die Behandlung der Hannophile # A T a) 3 Tag & destack Gar / Clar Bacha, 934

is an implicated product of eigencies OT which definitely increases the blood calcium. It has been used with completely successful results in the treatment of postoperative tetany. Although up to the present time research has not about calcium to play a part is hemoplaha, the author tried the see of OT to in the treatment of four hemophilies In the cases of two of these subjects, who ere bleeding at the time they entered the clinic, the administration of from 5 to ro c on of 01 m delly antil total amount of from 40 to 50 c on. had been given in the first treatment period

attended by entirely satisfactory results. As early as the second day after the beginning of the treatment the bleeding began to abate and by the fourth day it had ceased almost completely By the seventh day after the beginning of the treatment the patients showed no further tendency to bleed Under continued treatment the bleeding time and coagulation time returned rapidly to normal It was surprising to the author that only very small elevations of the blood-calcum level occurred under treatment with such large doses of OT 10

In the cases of the two patients who were not bleeding when they came under observation the administration of OT ro restored the bleeding

At later examinations of the four hamophiliacs it was found that under continued treatment with OT 10 the tendency toward hæmophiliac bleeding had not returned.

This report is presented with great caution, it being repeatedly emphasized that such a small number of cases of hamophilia do not constitute positive proof that OT 10 is efficacious in that condition and attention being called to the possibility of poisoning from overdosage of O T 10, which necessitates careful observations of the blood-calcium level

In the discussion of this report, Rieder reported a very successful result obtained with O T to in a case of severe telany from sprue. The condition had been present for years and was most evident during the winter months. Although the patient had once been benefited by parathormone, he had failed to respond to this preparation during the past year When he was referred to RIEDER he was suffering from a very severe diarrhœa (from fifteen to twenty defacations a day) and the calcium content of the blood was 48 mgm per 100 c cm Within a few days after the beginning of the treat ment with OT 10, remarkable improvement was noted. The calcium content of the blood is now normal and the attacks of tetany no longer occur Under combined treatment with raw apples (as many as three a day) the diarrhœa has diminished Rieder confirmed Gissel's findings on the basis of two cases of his own

SCHOEMAKER suggested that a paucity of salts in the blood may be related to the hydrochloric acid content of the stomach. In support of this theory he cited two cases of uncontrollable vomiting. In the first case the vomiting began the fourth day after an operation and blood analysis disclosed hypochloræmia Following the injection of a hypertonic salt solution, the vomiting ceased. In the second case the urea content of the blood was found increased, but the chloride content of both the blood serum and the blood cells was normal It was learned that the patient had been suffering for years from achylia gastric Therefore he had not been losing any chlorine ions in the vomitus Following treatment with a buffer solution (totofusin), the vomiting ceased These two cases show that hypertonic saline solutions should not be administered until the blood has been examined to determine whether a hypo-

chloræmia or hyperchloræmia is present

KLAPP said that while the cautery iron is a poor hamostatic agent, electrocoagulation yielded a brilliant result in the case of a young hamophiliac with a phlegmon of the palm of the Energetic electrocoagulation stopped the bleeding at once The resulting necrotic crusts were left to separate by themselves Klapp stated that in the future he will employ both OT 10 and local electrocoagulation in such cases He emphasized the necessity for care in the administration of OT to because of the possibility of toxic accidents (GISSEL) JOHN W BRENNAN, M D

#### LYMPH GLANDS AND LYMPHATIC VESSELS

Zolotukhin, A A Roentgenological Method of Examination of the Lymphatic System in Man and Animals Radiology, 1934, 23 455

Roentgenological examination of the lymphatic system was begun by the author in 1928. At first, frogs were used Later it became possible to visualize the lymphatics in rabbits, dogs, and human beings With the use of substances differing in atomic weight, it is possible to obtain stereoscopic roentgenograms of the arterial, venous, and lymphatic systems

For visualization of the lymphatics, various substances and combinations of substances were employed For successful results the substance must produce a contrast, must be very penetrating, and must be in the form of very minute particles or grains By thorough crushing and grinding for two or three hours, the particles can be reduced to a diameter of from 3 to 5 micra. The author obtained the best results with the use of a 30 per cent solution of collargol injected with an ordinary syringe either subcutaneously or intramuscularly or into the arthral cavity of a slightly anæsthetized animal In both man and animals the solution may be injected intracutaneously on the flexor surface of the ungual phalanx Later, after a large subcutaneous lymphatic vessel has been visualized, the needle may be intro duced into this vessel or into the visualized regional gland

In conclusion the author says that visualization of the lymphatic system is of importance not only from the standpoints of anatomy and physiology, but also for study of the lymph flow in pathological conditions EARL E BARTH, M D

Krumbhaar, E B Is Typical Hodgkin's Disease an Infection or a Neoplasm? Am J M Sc 1934, 188 597

The author reviews the literature on Hodgkin's disease and the theories regarding the nature of the condition According to the most important theones the disease is (1) an infection of unknown character, (2) an atypical form of tuberculosis, (3) a lymphoblastoma, (4) a megakary ocytoma, and (5) a disease intermediat between an infection and a accolumn

Hodgkin puld little attention to the nature of the discusa, and of his seven cases three were cases of other diseases of the lymph vessels. In 1808 Sternberg expressed the opinion that the condition form of inherculosis and recently L'Esperance produced lesions resembling those of Hodgkins discuss with avian tubercle becille Waller bas listed twenty-seven facts suggesting a relationship between Hodgkin's discuss and a berculoula. The early stages show an increase of the endothehold cells of frmph pulp and follocles and also of the lymphocytes, costnoolules, neutrophiles, and plasma cells which is characteristic of chronic inflammation and would be unusual for even a propless of the reticulo endothehal system. The giant cell becomes prominent, and fibrush and necrosis develop

promisers, this more and necrons overage. Therefore the picture of Hodgitis disease is last of an adorbheliosi cell hyperplease with characteristic and the proposed severage of the control of the picture of the control of the picture of the control of the picture. Of large title case, the types cell structure of large title case, the types cell structure was found in that y-thre. No exidence was discovered in these cases to support the theory that the conditions is necessary to support the theory that the proposed title picture. Hodgitish stream is necessary to support of the most important labitological finding in support of the theory that the condition is neoplessar. A boysy

and histopathological report should always be midds. For acceptance of the theory that Hodgida's discuss is a neoplastic conditions it may be assumed that the characteristic picture is an inflammatory response? The presence of a neoplasm which cannot be demonstrated. The trackinery toward metastatism.

is less marked than in tuberculosa.
On the bass of the anniarian theory of hematopolcisis, Mirdiar suggests that Hodgian disease as
related to myssical relaterance and the crythrobiastics county of the control of the control
biastics county from bour energy of revers the
robusts amports the theory that the control
is emports the theory that the condition is
directions rather than products.

While a bacterial cause has not been proved, the demonstrations that altramacocopic material (Sexts filter) from Horjatura disease can province characteristic lessons when injected into rubbits and guines page supports the theory that the condition in selections.

The sutter concludes that the evidence is one that theory that Hodgina's disease is infectious and should be included among the virus diseases. He therefore believes t should be called. Hodgina' disease rather than "hymphogranisions a said the crune is determined." CLESPOR OF RED M.D.

Craver L. F: Five-Year Survival in Sodakin's Discount Au J M Sc 014, 53 500

Leaver reviews 31 cases of Hodgian's disease, to 123 of a buch the diagnosts was proved by biopsy and In 185 of which it was based entirely on the chical picture. In r. 5 per cent of the total another of cases and 6.8 per cent of those in which binny are done, ferridation was followed by seturnal for few years or longer. The average ago of the putsues entryling first peans; (Listy-four years) was in reversity first years. (Listy-four years) was in respectively first peans; (Listy-four years) was in respectively first panels. The attention of the patients who sure a per worse the attention to the patients. In other cases, and we were the attention to the perfect of the patients of the perfect of the

The difference is the scrivial of the 2 goops we doe apparently to difference in the variation of the disease. However, it shows do a correlation with kintological appearance of the nodes recovered thiopay. Favorable fratures were localisation in single area, early thorough treatment should be a sheared to the first distance forcer, marked promise, and aphenomorphy were apparently and worth in figs.

The work of the control of the contro

Lencaria, T. Irradiation in Lymphomerama, Hodglith's Diomas, and Lenkarsais (A Statistical Analysis). Am J. H. Sc., 434, 431. 6

Leacutic analyses the offect of bradetion myoup of a set cases of prophosomrous. Redeficies and redormia collected from the handes and rep cases observed by hissaed? Rather observed myoung the set of the property of the conductive of the conductive of the send of the age of

method of choice in all 3 types of lescos In lymphosarcoms, five year surerval is obtained to 30 per cost, and ten-year serviral or care is at least from to 15 per cent, of the cases. In the remaining cases the expectation of his is recreated from two and half to three and one-twellth wears The immediate results are often so prompt and deensive that they may be called spectacular irradiation must be carried out with penetration rave (see ky and a filter of from 16 to 1 mm of copper or alac) large doses (a go to on per cest akin unit does per field) and treatment of as much of the lymphatic system as possible. The entire abdomen and the mediastmen should be included in the exposures, whether the disease is localized or generalized By such technique it is not seusual to cover from 16 to so large portals with full or nearly full crythems does within a period of to or three wanks. After from eight to ten eaks the trradiation should be repeated over the areas of manufest leavons with a dose of best yo per cest of the skin unit dose and from ten t twelve weeks later third series of unadictions with dose of po per cent of the skin wait does should be given In cases of Hodgian's disease the incidence of five year survival ranges from 15 to 33 per cest, but as most of the patients remain carriers, frequent resumption of the irradiation is necessary. Ten-year survival or cure is obtained to only a per cent of the cases at the most. In the cases of patients, he dewithin the first five yours, the average experiency of

Mi is increased from two t three and half years.

The symptomatic improvement is nearly always marked, but not as spectacular as in lymphosarcoma As a rule roentgen-ray therapy with penetrating rays (from 160 to 200 ky with a filter of from 1/2 to 1 mm of copper or zinc) is preferred, but in some cases favorable results have been obtained with radium packs. The dosage indicated depends upon the general condition of the patient, and the severity of the lesion. Only the diseased areas should be exposed.

In leukæmia, irradiation does not effect a cure and results in only an insignificant prolongation of life—perhaps from one third to one fourth of the natural expectancy which, in the chronic forms of both the lymphatic and the myelogenous type, is believed to be about three and a half years. However, in the chronic forms, it is followed by remarkable symptomatic improvement and an increase of at least 60 per cent in the patient's efficiency throughout the major part of the duration of the disease. In the acute forms not even temporaty improvement is noted. While there is virtual chaos concerning the technique of irradiation in this condition, the author regards it as safe and perhaps best to pursue the following course.

- I Lymphatic leukæmia Irradiate the spleen with either half-erythema doses of medium-penetrating roentgen rays or with smaller doses of harder roentgen rays and treat the enlarged lymph nodes simultaneously with the harder rays by employing the protracted fractional method spaced so as to conform to the changes occurring in the blood formula
- 2 Myclogenous leukæmia Treat the spleen alone with half erythema doses of medium-penetrating rays or smaller doses of harder rays. The series, which usually should extend over two or three months, should be repeated at shorter or longer intervals, depending on the blood formula. It is harmful to try to reduce the white cell count to normal or below normal.

Leucutia does not include in his article the results of teleroentgen therapy or roentgen-ray therapy with voltages above 200 ky. He states, however, that except perhaps in certain cases of localized lymphosarcoma in which a higher penetration attainable with higher voltages is necessary, he does not believe such treatment will materially influence the results.

#### SURGICAL TECHNIOUS

#### OPERATIVE SURGERY AND TECHNIQUE; POSTOPERATIVE TREATMENT

Meyer G. Scalping and Its Treatment by Transplantation (Under Skalpierung und Transpleatationsbehandlung) 954 Meerster W Desertation

In spite of all protective measures, skinning or scalaing injuries occur repeatedly especially in the cases of women factory workers, as the result of caresinancias. When there is no commercion of the swined tissue with the underlying bases, the acciping is described as complete, whereas when connecting brinksy remains it is described as incaseneric processing to the contraction of the con-

plete or better as flap wound

The mechanism by which such an injury occurs is easily understood and has been studied experimentally. A rotating part of a machine catches and twists the bair and a powerful pulling force comes into full play against the resistance of the relatively purpobale body. A purely vertical force merely pulls the hear out, but a more tamental pull removes the scalp as well. The direction of the pull is important in the possible preservation of nonmisting bridge of tuesse (scalp pedicle). The site of such pedicis in, of course, always in the area where the effect of the pull was least. The course, ad extent of the teer depend upon the direction of the tearing force and the differences in the involved timeral This fact explains injuries which under certain or cumatances carry along the auricle and those produc ing a free pedicle of cervical akin extending some times as far as the seventh cervical vertebra

If the galest populations which is eastly separated from the persolation has taken with it streets of pronosation, absorbinal consistent (pervison impress down to the bose) must be present or the lighty must have been produced by a tangentially shexing from which pipped the entire scale between the skull and a rough author under strapped it back no one strake. Flay wounds of that type on the skull can be received in the strain of the skull are brepost. However, shaming wounds do not occur only on the best Sunday may be shown to the hand, the sales of the best of the posts have been reported in the literature.

in addition to the local myrry and the associated figures (fracture, natural) super bennectharp) about and secondary complications (grapped), about and secondary complications (grapped), and appeals are of importance in the propositions and special are of importance in the proposition for jury resident forware causes death, but its complications are often if all. When epithelulization from the outer edges a statel file may be threatened by relaxations of severe supportation occurs. The first potentity made attempt to earlie the entire straked

scalp is futile because of the poor vacularisation at the bed (the periostrom of the upper loss enfact) and the thromboals of the veneris in the edges of the wound. A treatment of the flap with chesical agents can alier thin. The prognosis has been readered more inversible only since the latroduction of with transplantation.

The history of skin transplantation began with the Revertita procedure in 800 which, is suite of many defects, was frequently used during the sur of 1870-1871. It was not until \$56 and after long experimentation that Thierach introduced his meth od by which it is possible to cover even fresh size defects quickly and almost completely. In this pracedure success depends sport exactness of hemostants an elevation of the graft by accumulated blood keeps the graft from taking Microscopic examinations (Endericin, Marchand, Lexer Garri) show however that direct union is exceptional Is corneral there is to be found, between the scaft and to bed, layer of credate which at Ant counts of red blood calls among which stultunciested round cells enter from below. After twenty four hours fithis expedite is permeated by fibroblish with large anciel which constantly increase and thereby form a granulation tissue. In this granulation three there appear on the third or fourth day perpendicular to the finaling surfaces, thus walled bollow cylinders which represent the beginning of rescaled connection between the bed and the graft The slowly growing epitherium then creeps over the unevennesses of the bed, and by the texth day the boundaries between the graft and its bed are difficult to distinguish. The thinner the layer of blood between the graft and its bed the faster the healing process, combtions being almost the stone as in primary wound bealing

Figation of the transplanted skin graft occurs by means of the growing across of blood result. The first histological changes are manifested as serly se the end of the ninth hour by the penetration of leucocytes through the exadate into the connective traste spaces of the undersurface. After knowing and infiltration, the convective tiene cells take part in the problerating processes. Most of the vessel degenerate and after the third day newly ferred vascular sprouts take over the circulation between the bed and the graft Reverds observed the adhesion of bits of skin which ore still move the after forty-eight hours. Under such circumstances an owneric exchange of tissue field stust play a rife in the preservation of the graft. The servicel demonstrated by Enderich is distorally of sensetury interest. Notes orthy however, is its demonstration of the contract of the tion of the fact that the superimposed sire can be penetrated by capillaries after eighteen boars

The often observed process of separation of the superficial layer (papillary bodies with an epithelial covering), the so called eschar, does not jeopardize the result. The lowest layer with its sweat glands still permits creeping of the epithelium separating process seems to be favored by salves and moist dressings When dry dressings are used (Lexer, Brunner), separation does not take place until the deeper layer has grown fixed and resistant

On examination several months later the epithelialized area is found slightly red, shiny, and on a level with the surrounding skin . It seldom has normal sensibility It shows slight tendency to shrink and at first is still scaling. The amount of desquamation depends upon the blood supply, as do also the correction of the differences of level and the mobility of the scar Because of the presence of elastic elements the scar can sometimes be lifted up in folds Scar contraction seldom occurs when Thiersch skin grafts are used Irregular brownish pigmentations, which often persist for years, are due to changes in the blood pigment beneath the graft Return of sensibility takes a long time In some cases of large defects sensibility may remain absent. In others it may be limited to the edges of the graft as the nerve fibers apparently grow in from the edges rather than from below

The thinner the graft the better the union (Garré), the better the circulation of the plasma, and the better the adaptation of the graft to the uneven bed The adaptation of the graft can be improved by the avoidance of empty spaces by sponge pressure. A surface as dry as possible heals best. Therefore grafting should be delayed until the bloody

Only autoplastic skin transplantations are successful All attempts (Lexer) with homoplastic material have failed "The trouble and pain of a exudate ceases donor are always in vain" Moreover, time is lost.

In cases of stripping of the sole of the foot the use of a transplant from the thigh of the other leg or of fat grafts from the buttocks is advisable because of the excessive tenderness of newly formed

Large flap wounds with a wide pedicle should be tissue on the sole of the foot. merely closed over a drain. When the pcdicle is narrow, primary reduction of the defect should be done and followed by the use of Thiersch grafts

In conclusion the author reviews seventy cases of scalping or skinning injuries collected from the

(LAMPRECHT) THOMAS W STEVENSON, JR., M D literature

Postoperative States of Excitement Arch Neurol & Psychiat, 1934, 32 681 Muncie, W

Acute postoperative psychoses were first described by Dupuytren in 1819 in reporting a case of "delirium nervosum", Following the advent of antiseptic surgery they received increased attention and in the middle of the century antiseptics were considered an etiological factor With the development of asepsis, toric manifestations became less

frequent and anæsthetics came to be regarded as principal factors although pre existing mental disorders, chronic alcoholism, sepsis, fever, dehydration, anæmia, and cachexia were also considered of

On the basis of Magnan's ideas concerning degeneracy, the suggestion was made that postoperaetiological importance tive psychoses might be due to a constitutional predisposition, the operation being merely a pre-

Bonhoeffer, recognizing the great diversity of etiological factors involved in the production of cipitating factor psychoses, brought some order by his classification of symptomatic psychoses To these psychoses Kleist later added postoperative psychoses America the importance of infection has been stressed and postoperative psychoses have been linked with puerperal psychoses In the literature the psychogenic factors have been neglected. Four psychogenic cases carefully studied showed that fear associated with mistrust and depression is a predominating factor while toxic factors are of

Fear and depression are often produced by the minor importance patient's associates or medical attendants activities of medical assistants, the irritation of misunderstanding, and insistence on routine medication all play an important part in the production and perpetuation of fear and depression When fear is marked and cannot be allayed by ordinary assurance, operation should be delayed if possible

## ANTISEPTIC SURGERY, TREATMENT OF WOUNDS AND INFECTIONS

De Dziembowski, M S Treatment of Wounds by the Local Application of Whale Oil (Traitement des plaies par application locale d'huile de baleine) Bull et mem Soc d'chirurgiens de Par, 1934, 26

Reports of favorable results from the local application of vitamins to wounds led the author to use whale oil on extensive infected wounds as recommended by Loehr Whale oil is sterile Even streptococci and virulent staphylococci do not grow in it Therefore it does not require sterilization, which

Loehr reports excellent results in cases of extensive would destroy its vitamins

infected wounds, lacerations, and burns

Thorough cleansing and removal of necrotic tissues is necessary before application of the oil Treatment with whale oil is superior to ordinary methods with changing of dressings and the use of drains which injure granulations and delay epithelization, thereby favoring scar formation. In cases of large wounds, especially large wounds of the fascia and tendons, foreign bodies (drains, gauze, and chemicals) and Bier's hyperæmia are contra-indicated In cases of extensive wounds of the hand it is best to limit suturing to the minimum and treat with an ountment of whale oil plus fixation

The uthor uses a so per cent of intenent of whate oil in vascine. H states that debyldernent must so the too extremive. Just ordinary cleaning and removal of dead tuser and foreign hoddes should be done. This should be followed by the polication of a third, layer of the outtnern and immobilization in plaster or starch. The dressing should not be chanced for from one to two weeks.

Skin is very tolerant to whale oil in vassline. Necomplications such as exema have been noted after long applications of the oil, even hen they have been made in the presence of pus, abaceuses, or

phiegmons

When whate oil in vaseline is applied to stumps the sax will be soit. The whon has obtained favor able results from its use also in borns. He emphasizes that the drawing should be left on for key periods of time.

Joseph E Gausson, 10 D.

Reportin, E. Experimental Researches are the Action of the Ultraviolet Reps in the Besting by Frinnery or Secondary Intention of Womans of the Silin, Similarde, and Persenchymatorian Or soll amount of the Silin Silindes, and Persenchymatorian of the Silindes, and the process of the Silindes of the Sil

From extensive experiments on rebbits and a review of the hierature the thor draws the following conclusions

In cutaneous wounds subjected to their direct and local action, the ultraviolet rare have a favor able effect on bealing by primary intention and cause more record description.

more regal dicatrization.

They have no direct effect on healing by primery intention in wounds of muscle.

3 When they are applied beyond the wounded area, they have so effect on wounds of skin or mostle

4 I wounds of skin exposed to local tradiction with the ultravolet rays, healing by secondary intention is busicoed

5 The sitraviolet rays ha no direct action on the healing of muscle ounds by accordary latention 6 They have no effect, local or general, direct or indirect. a the healing of acquiring dispersion-

tous organs—liver and spleen—by secondary intention of the favorable influence on the process of

cicitnization in primary and secondary union of situs ounds is due to vasciditation and new visines formation.

8 As no general reaction is noted, the effect on the creatization of counds must be due to the riva

themselves and not to irradiated air or gus according to the rays Joan H. Garrons, M.D.

Schapira, C. Feet Transparic Ossifications (Sule

Schapira, C. Fest Traumatic Geoffications (Sulle ounications post traumatiche). Che sièer. \$34, 007.

The author reports to cases of post traumater osuffection which were rather unusual as the confication occurred, not in the massies, but in the para-articular tissues, particularly the joint cap side. One of them was nonescal also in the fact the the joint involved was the aboulder. The noncommon who of such coefficiations is the elbert.

The first case was that of a man thirty-ers on some of age. During the war the patient received ray superficial abrannel wounds, one in the right shoul der and the other in the right beel, and on Adrest a. ross, he sustained a contusion of the right ober and a dislocation of the right aborder in being thrown from a horse. The dislocation as reduced about an hour later without any particula deficults After immobilization of the arm for dishiren day active and passive movements were began The movements were very painful and marketly hunted Roentgen examination on September 27 showed the foint to be soresal, but disclosed, in the triangular space below the joint, between the median edge of the humerus and the interni pargin of the scapels, an legagular abadow made up of a sumber of parts amounted by transparent soors and presented a prolongation toward the axille. As the constants by very near the axille, operation was performed to prevent its extension to the anilary vessels and perves. The ossification was found to savolve large part of the joint capsule. The micapsuler arrance was not affected. The purity formed home had the appearance of normal hone. Its removal secondisted detachment of the escenic which PA thickened and had become incorporated with the newly formed bone in its antero-inferior part covery resulted with limitation of movement of the aboulder loint. There has been no further new production of pone.

The second case was that of woman therty low years of ago who mustained a fracture of the effor m falling from bleyels on October 3, 1933 The joint was instockelered for two weeks. At the end of that time movements were limited and painful Rossigns examination showed the fracture fragment still deplaced. In addition to the calles sich ented the fragment to the head of the radius, there as an conficution on the lateral arte of the reductmentately below the head. This was less dense than ser mal bone and was separated from the cortex of the transparent abs danhysis of the radius by Operation performed on January to showed a men of newly formed bone poperently originating from the joint rapsale, from which it could be separated only artificially and showing only sight connections with the condyle of the humerus and the neck of the radius. The muscles were not involved, but the deep surface of the aurular bigament was invaded by the nealy formed bene. The ligament was therefore removed together with the remains of the expect and the bead of the radius. In this case operation was performed too recently to allow judgment of the late results

I conclusion the author says that operates is not indicated in cases of post transactic osciliates unless there is serious impairment of function of pressure on nerves, and should not be performed until the ossification has reached its maximum, which requires from six months to a year AUDREY GOSS MORGAN, M D

Fedorovich, D Treatment of Pyogenic Surgical Diseases with Artificial Gastric Juice Vestn Khir s pogran obl., 1934, 33 135

The experiments of Taure, Pavlov, and others proved that the gastric juice has an antiseptic action It kills the cholera vibrion, the typhus bacillus, and the paratyphus bacillus in fifteen seconds Its bactericidal action is greatest when its acidity is between 60 and 70 In experimental investigations, Rozansky found the best antiseptics to be brilliant green, rivanol solution, and artificial gastric juice These experiments were controlled by investigations in 200 clinical cases. One hundred of the patients (25 of whom had suppurations) were treated with iodine solution and 100 (10 with suppurations) with gastric juice Vanovsky treated 30 cases of complicated fracture with gastric juice In most of them the treatment was begun after six Suppuration occurred in only 3 cases Of 50 cases of phlegmons and osteomyelitis which were treated with gastric juice after operation, the temperature became normal on the following day in 35 and on the third day in 12, whereas in a control series of 50 cases of phlegmons treated by ordinary methods the temperature did not become normal until the fifth day or later When gastric juice was used the average time of treatment was nine days shorter

The action of the gastric juice is due not only to its bactericidal property but also to its ferments which accelerate autolysis of the tissues

The formula for artificial gastric juice is as follows dilute hydrochloric acid, 18 c cm, pepsin, 20 gm, distilled water, 100 c cm, and glycerin, 5 c cm

M Sherberg, M D

Ritter, C The Importance of Bacteria in Surgical Infections (Die Bedeutung der Bakterien fuer die chirurgischen Infektionen) 58 Tag d deutsch Ges f Chir, Berlin, 1934

In disagreement with the prevailing theory of the predominant importance of bacteria in the development and treatment of surgical suppurative infections, Ritter believes that the chief factor is, not the bacteria, but the necrosis of the tissues He states that the necrosis is not the result, but the cause, of the suppuration With its elimination the suppuration disappears even though a considerable number of bacteria remain. Accordingly, treatment should be directed chiefly to removal of the necrosis The cauterization of phlegmons by Bier's method causes healing, not by killing the bacteria, but by removing the necrosis Its action is similar to that of the excision of crushed wound edges by the method of Friedrich, which renders primary suture possible, and to that of the radical removal of burned vesicular epidermis, which is followed by smooth healing

under a dressing Even when treated with cod liver oil, a wound continues to suppurate until the necrosis is eliminated. For the phrase "ubi pus ibi evacua" should be substituted the phrase "ubi necrosis ibi elimine". The elimination of necrotic tissue may be hastened even without operative removal. This may be accomplished by stasis since, in the presence of hyperæmia, the still viable tissue is under favorable conditions of nutrition so that the bacteria are deprived of their power of colonization, the reparative processes are strengthened, and the destroyed tissues are more rapidly separated and absorbed or thrown off

As treatment, Ritter therefore recommends rest obtained with the use of the closed plaster cast which he first suggested in 1916 for the treatment of infectious processes including subacute septic-suppurative gunshot wounds of joints, suppurations of bones and soft tissues, and bone fistulæ. This cast places the wound at rest by preventing irritation. As a result, the suppuration is greatly reduced and the weakened body is enabled to concentrate its powers against the most important irritant, the necrosis

In conclusion Ritter says that the theory that necrosis is caused by bacteria and their toxins has not been proved. Numerous facts indicate that, as in suppurations from trauma and burns, so also in suppurative surgical diseases such as acute osteomyelitis, appendicitis, and cholecystitis, primary mechanical and chemical effects and nutritional disturbances may produce necroses in which bacteria colonize secondarily.

(RITTER) LOUIS NEUWELT, M D

Florey, H W, Harding, H E, and Fildes, P The Treatment of Tetanus Lancet, 1934, 227 1036

The authors state that if recovery from tetanus occurs it is complete, that is, there is no residual muscular impairment. It is evident, therefore, that the toxin can be eliminated completely, the nerve cells being left intact Antitoxin, even in large doses, is apparently incapable of removing toxin already fixed to the nerve cells, but the toxin is probably slowly oxidized The authors believe that if the patient can be saved from the exhaustion caused by prolonged spasms and can be supplied with sufficient water and food, it should be possible to keep him alive long enough to permit oxidation of the toxin They therefore tried prolonged anæsthesia and administered curare to paralyze the muscular contractions, keeping the patient in a Drinker respirator

Most of the studies reported in this article were of an experimental nature. Cats and rabbits were used. After the administration of an initial lethal dose of tetanus town, the animals were kept alive and free from convulsions by continuous anæsthesia. However, they all died of bronchopneumonia because of the great sensitivity of their pulmonary tissue.

In a series of experiments in which curare was used it was found that this drug is capable of par-

tially bolishing the muscular paralysis. The great deservantage of its use is paralysis of the diaphragm. On the basis of their experiments and ellineal observations the authors suggest the following treat

ment for human tetauras

r Quiet to exclude external stimula

s The similabiration of large doses of tetanes antitude, preferably by intravenous injection.

3. Excision of the original wound.
4. Control of courulations and rigidity by the continuous administration of nitrous oxide and carried one of curare with the Drinker regulator always at hand
JONE H. GUERCE, MD.

Bary, L. Anti-Tetamir Vaccination (La receisetion anti-tétanique) Press més Par 2024, 4

Vallec and Basy made the first oil-tetanes vaccination in 917 Basy emphasizes the responsibility of the physician in determining when the use of anti-tetanus serum is indicated and discusses the charges of sera of horse origin.

As physician for a large rational company Basy vaccinates against tetasses all railroad comployees who volunteer. The employees are offered also anti-typhoid and anti-diphthentic treatment. The servological record of each employee is kept on a card

The handling of peckages and animals from all parts of the country makes tetumes infection to be especially fewer. Bary points out that army horses are regularly vaccinated against totains, but not them who use them. He argue general anti-tetumes vaccination.

[See H. Gazzocz, H. D. See H. Gazzocz, H. D.

Schoor H. The Prophylatic of Tetanos and Scrutt Sickness (Tetanoprophylats and Sarankrank heat School and Schools 924, 79

Although most physicaes are in favor of perbarais, the problem is still a subject of disperts, especially since Doeuler recently opposed probly lais. It is the dasger of serom exchaes that taskes many physicaes bestate. In sensitive advisionable and those who have received repeated aspections serious ackness usually develops in from four to serie days after the treatment whereas no persons not previously treated it mustly does not develop mustly after from eight to deven days. The climical monificiations—bendedee, futique, fever articant with portificia, trimment ordents, pour is edings—usually last only for from one to three days. Occurrence of the control of the control

 The use of serum from a different species (boying serum) for re-expections

2 Description by the method of Besredks and the use of intracutaneous stems that II after the intracutaneous administration of o. cen of serum diluted roo times the physiological salt soltion a reduces appears about the stra whesi affergy is present.

5 The use of high-grade and refined sera inquiry among physicians disclosed that the allergic effect of the sers differed according to the source of the serum Statistics based on 1,000 cars which were obtained by questionnaire sent set by the Swim Accident Impurance lastitute showed that a general serum sickness occurred as about to per cent, and that the results cannot be much improved by the sac of a commercial scrum. It is a striking fact that the re-injection of pasteurard Pasteur serum is followed by reaction considerably less frequently W th regard to the question as to whether the use of high-grade and refined sen cames serum reactions less frequently the criticals is monthcient (FR SE) JOHN H GARLOCK, M.D.

Busello, A.c. Serum Sheck and Serum Schnee Following Tetamus Vaccination and its Trast near (orranslock and Seruminaskes) and Tetamenchushupfung and ihr Reinedene) Destable and Talastic 204. 137

Busello defines serum shork and serum prices as a reaction between antique (forcing proteins) and the authorities formed against it. He state the every serum contains about and picked he interest the best of the contains and protein he interest in the difficulty and pseudo-picked which dissolved with difficulty and pseudo-picked which dissolves easily. Buszillo interprets the no-charles of analysis and process in the charles of analysis and process in the contains of analysis and process in the contains of analysis and process in the contains of the contains of the contains of the contains of products obstruction in the confidence.

contramendation of the contramendative parties the higher too, certailly when a repeated inbraveous ideas is given to an individual who has recel of previous ingertons and the period between the highertons in short It causes paties challe, wending, creative pathyra, collapse chypocore, convenients, and parally death. It is very inference As a limit occurs when a previous convenient and parally death and previous convenients of the development of returns. Breast reported that we have been a previous contraction of the development of returns. Breast reported that we have forced the tended to be the contract only twice in . See core pophylater inoculations, but 40 times and 15 of death is care of therapenth moneitations. The treatment hand such do the literary of the contract of the about the owner of the contract. On a substitution of the contract of the about the owner of the literary of the contract of the about the owner of the literary of the contract of the about the owner of the literary of the contract of the about the owner of the contract of the about the contr

infusions of schemain, large hisrarcons infusions of warm 8 per cent notions abbends solution and artificial respiration. Von Stark combined abook in one case by light other narradis.

Prophybric injections should also up to great scheminershy and slowly. In the nesses shere proviously inoculated, borine serum is presentle (Beltring). The serum should be given as the patient is still under sarcoses for trustasset of a round. Descondition too is not ery successful of injection of or em of series in given here musically of after three or four hears investigated.

dose is given (Bearedka)

Serum ackness is frequent. If cases showing the slightest articaria. It the alts of the injection are

included, its incidence is 40 per cent. As a rule it develops in from seven to nine days, but in persons who have been treated previously it develops in four or five days The symptoms vary from mild to very severe The most important are urticaria, œdema, joint swellings, diarrhœa These usually subside in four or five days and leave no sequely Polyneuritis and paresis of the arms are rare. In children the symptoms are always very much more severe than in adults and dyspnæa occurs hecause of cedema of the glottis Therefore the patient must be natched carefully However, tracheotomy has never been necessary in the author's cases The treatment indicated includes dry powder treatment, the administration of heart stimulants, and the intramuscular injection of from 5 to 10 c.cm of calcium gly curonic acid However, this treatment does not affect the duration of the condition, it merely relieves the spasms and other symptoms Buzello has not found Rother's autohæmotherapy successful On the other hand, he has obtained good results from the subcutaneous injection of an additional 5 c.cm of the tetanus serum at the onset of the serum sickness. In his small number of cases the serum sickness did not become more severe or recur over a prolonged period of observation

In conclusion the author says that the prophylactic injection of tetanus serum should not be withheld because of the possibility of serum shock and serum sickness, but the patient should be advised of the possibility of these conditions in advance (FRAYR) JOHN H. GARLOCK, M D

#### ANÆSTHESIA

Crampton, H P Factors Other Than Anæsthetics Affecting Anæsthesia Proc Roy Soc Med, Lond, 1934, 28 91

The author limits himself to a consideration of the psychological factors which favor or militate against the induction of smooth anæsthesia. In discussing the reaction of various types of patients to an esthetic agents he states that persons with well-disciplined minds take anæsthetics well whereas those with undisciplined minds and spoiled children take them poorly "Those who boldly admit their fear are as a rule quicker in reaching a smooth anæsthesia than those who suppress it it is surprising how few people are in a state of real panic at the zero hour" Alcoholic addicts require more anæsthesia than persons not addicted to alcohol and recover quickly "Cheery alcoholics" take anæsthetics better than others In the author's cases alcoholic addicts are given alcohol "neat" before operation Crampton says, "If he drinks or smokes to excess, by all means begin a cure after anæsthesia rather than before "

With regard to the anæsthetist, Crampton discusses "stage management, judgment, and personality" He states that without these attributes the anæsthetist is "a mere retailer of dope" Under "stage management" he mentions rest before in-

duction of the anæsthesia, tranquillity of mind, bodily comfort, position, and preparation of the patient, and punctuality of the operation Under "personality" he discusses briefly the Art of anæsthesia G Daniel Delprat, M D

Sise, L F The Technique of Intratracheal Anæsthesia Surg Clin North 1m, 1934, 14 1049

The author describes the technique of the induction of intratracheal anæsthesia with particular regard to the technique of direct laryngoscopy and intubation. He states that the intratracheal method is of great value and, if correctly carried out, is quite simple and easy.

The an esthesia is an important factor influencing the ease of intubation. Practically any of the anæsthetic agents—cocaine, nitrous oxide, ether, or avertin—may be used, either alone or in a combination. Intubation is greatly facilitated if the agent chosen and the plane of depth are such that the cords are well relaxed and wide apart, if the anæsthesia is of sufficient duration to permit intubation before sensation returns to the larvix and the cords become approximated, and, when intubation is done through the mouth, the jaw is sufficiently relaxed to open easily.

The type of anæsthesia which meets these requirements best is induced with avertin and local anæs-

thesia of the lary nx

The avertin need be given only in sufficient amount to put the patient sound asleep. For the induction of local anæsthesia the author sprays the larynx with 10 per cent cocaine through an airway after the patient is under the influence of the avertin.

I FRANK DOUGHT, M D

Barlow, O. W., Fife, G. L., and Hodgins, A. C. Avertin in Pre-Anæsthetic Medication A. Survey of 1831 Surgical Anresthesias Arch. Surg. 1934, 20 Sto.

The authors reviewed a series of 1,831 avertin anæsthesias induced on a general surgical service since 1930. The avertin was given in doses of from 50 to 100 mgm per kilogram following the preliminary administration of morphine and atropin and was supplemented by several types of general anæsthesia.

The dose of the hypnotic was adapted to the age and general condition of the patient. Patients from one to eighteen years of age received maximal doses—from 90 to 100 mgm per kilogram—and aged patients as a rule received minimal doses. The optimal average dose for adults appeared to be from 80 to 85 mgm. per kilogram

Ninety-two per cent of patients came to the operating room asleep Occasionally—as a rule following medication with small doses—movements persisted On their arrival in the operating room the patients were usually relaxed and, although satisfactorily analgesic, still responded to painful stimuli. The pulse rate was variable, occasionally wide oscillations on either side of the normal rate

were acceed. The medical take increased allahily were small does were given but we chier us-changed or slightly depended by martinal does to see the control of the control of the later The extremes of ago were associated with the least Age extremes or ago were associated with one many stability. The blood pressure and pulse rate bore an inverse relation. The median blood pressure de-company at many control of a many control of the conen indexe tention the mecani tento of their forms to fee cent, its a maximum range or more forms above ; per cent above ; 40 per cent below normal forms are minimal in young prices; and maximum categor serie announce to Journ persons and materials. The respiratory rate as other machine per practice is to require to your machine as once can decrease of rapid too occurred the rapid atory rate increased. more shallow. The minute volume was depressed in poportion: the dose of the hypocite administration to The volume was rendered The decrease varied from The decreme varied from the cent when so men do a vertile were given, to 4 per cent when so men adopted to the exceptional of the manufacture, does not compare reduced to minimize reduced cases, does of version of the compared to the comp

The induction of anasthesia was raped From 20 to by per cent of the angelbraia was taped from so to on the transfer of the poor Poor negatives a received the contract of the poor Poor negatives at the poor to th tendent after small dose of svertie and when the frequent aton some or everton and when the are subsequentied physical other general specification as an analysis and a service are an analysis as a service are a service are an analysis as a service are a se has supplemented by more order process and another than as need activations that when a street in the street in door acts an interpent when aretin for streng a dome as high a from so to so so for per highest from the solution of the solution o agent continues responses and security comp. Petients reacted better than age of petients and makes

The pulse rate was accreticated from A se pone into was attendant trons or at into the state and the state of the state are of there we virial but fromly proper from to the dose of the hypnotic administrate tours to the cose of the appears amminosition to 40 per applementary anesthene

The blood pressure loctorized during the course of the coord feering and partially or competely compete the operation and partitudy or compactual compactual compactual following premedication. The increase was greatest after manual doses of avering and was distinctly less in agent patients there is bounded bettered a state while the beneated on a letter be a sea of the season of the seaso The blood pressure of patients operated spon for thyrold conditions mercaned ( thattet debat that that at bettern obersted show fronter conditions. The increase in the distrole because was constituted from the secondarying

The respiratory rate increased from 40 to 60 per ine repetatory rate increased from so to no per-cent during the anesthesis. The rotone remained more shiften than armal. The comparitory depengoo beautif (officered beautiful and featureline) school services and services from services and services from the services of constructed by the amenthetic brocedures on the interest managed beamwareneous way markin of select, are bettor at and the technologies margin or sately was nationed and the disturbance duminished comments as the effects of the Testin and of bostobers shall special or the same negreed allightia spoke maximal (or from one to pan another of transfer and the transfer of transfer o

home. The minute volume because either sersed nous the miners runner occase canor seems of approached the level 1 prenedication Excep-

Fostoperative rentlement was observed in from to to be test of the case. It was not trucke as so we per tent or the cases, it was not brushed too been from the natural standpoint, but from so to be the perfect of the realism patients read of medical from the lands of the standard from the standard fr thon The increaser of residences bore as irrese the property of the property of the second of the property of the property of the property of the second of the property of was noted among the various surgest freque to the post of the postoperative movements are denone part or one prosesperature movements acre on the general anesthetic used. The reaction armed to the grantest and the case of the statement and the contract of the contract minimal in the prosence of local streament

The duration of the postoperative skep here better the distance of the dose of a rettin administract. The barlog of borloberstak memoryonense asi sk tention to the ness of station enumerates via person or postoperative unconsciousness was as minimally inforced by the mature of the annihing supplement and the duration and security of the supplement and the curring and severally of the operative procedure. For your first partial and supplement to the operative partial and the procedure. For your partial and procedure to be recognized to the procedure to be recognized to be recog board to be sectioned and start forces.

hance and comes occurred to the protogram.

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A moderate degree of read drongs occurred to towns the administration of system. Specimes of arine taken twenty four boors after the operation showed about in 1 per cent of the cases and cast in 7 per cent. The empority of the execution takes from forty-sight to arresty-two hours possessed they spend so spound of civit per suchase still traces of approxim and carry battering in satisfy received an accommon in carry our analysis. day traces or assumm soc cases personen ne service for Traces of super sere acted and infraperation bet see condered comporant However, se one the persons was followed by marini gro-cuse the persons was followed by marini gro-surie with persons for more than to a Understable reactions following acceptation in

morphole, stropping and averting medication in the companies of the companies and averting included in the companies of the c agrandant fall in the blood pressers and definer deprendent that to the cooks preserve and deprendent of the respiratory volume, where each country with the cooks preserve and the cooks schoolly was marked. If the department at agent cent the resolvatory rate because accelerated. The can the respiratory rate became accentation to depression of respiratory rate became accentation to where it is a constitute of the state of the One patient became hyperical and another vound abortly after the administration of the irribotic

Speck teachings of English or less defines acres and support the support of the s served in approximated easter dang the operation or in the potoparan beared for graff of these the proof beasens perma per cent of the cent publicabilities and trestment are redshift,

be prepared to defend his choice in case of failure Irradiation treatment requires a comprehensive knowledge of chinical behavior, pathological varieties of tumors, and radiophysiological phenomena related to tumors

A radioresistant tumor is defined as a neoplasm which cannot be completely sterilized without serious damage to the surrounding normal tissues. A small radioresistant lesion can be cured by intense local irradiation, but if radionecrosis results in the tumor bed, surgery would have been better. However, there are tumors possessing an intermediate degree of radiosensitivity which can be eradicated by interstitial irradiation without radionecrosis. An excellent example of this type is carcinoma of the breast.

Repeated irradiations over a prolonged period of time seem to increase the radioresistance of a tumor and render normal cells radiosensitive. On the other hand, it has been found that irradiation continued over a considerable period of time may be more adequate than the use of a greater intensity for a short In this respect the saturation method of Pfahler resembles to some extent the technique of Coutard The results obtained by Coutard and Berven in carcinoma of the tonsil have markedly advanced the irradiation treatment of these lesions The author describes Coutard's technique He, himself, has adopted the technique of teleradium therapy which differs from the Coutard method in utilizing the more penetrating gamma rays of radium and more fully extending the principle of continuity of irradiation The pack is used twice daily on consecutive days without interruption for a period of from twenty to sixty days The collection of data regarding this treatment will serve for a comparison between the biological effects and clinical results of Xrays and gamma rays Continuity of irradiation may be one of the most important factors in the sterilizing of neoplasms Other problems to be considered are the total interval during which the irradiation is best given and the intensity of the irradiation

A JAMES LARKIN, M D

Bertolotto, U Roentgen Therapy of Gynecological Inflammations (La roentgenterapia nelle forme inflammatorie ginecologiche) Radiol med, 1934, 21 1103

The author reports briefly fifty-three cases of various types of gynecological inflammation which were treated by roentgen therapy. He used a Koch and Sterzel super-universal apparatus with four valves. The focus-skin distance was 30 cm, and the filter, 05 mm of copper and 3 mm of aluminum. The tension varied from 120 to 180 kV, but in the majority of the cases was 150 kV. The fields in the lower quadrants of the abdomen varied from 150 to 400 sq cm. The half-value layer was 06 mm of copper up to 120 kV, 065 mm from 120 to 150 kV, and 09 mm from 150 to 180 kV. Hammer's dosimeter was used. The doses were small Doses of 50 r or less repeated three times in twelve days were

given in cases of acute inflammation with circumscribed exudate and doses of from 75 to 100 r repeated two or three times in cases of pelviperitonitis and parametritis with extensive exudate. In a number of cases doses as low as 20 r yielded excellent results

Excellent results were obtained in 37 per cent of the cases and good results-marked improvement in the general condition, abolition of pain, and a decided decrease but not total disappearance of exu-The best results were date-also in 37 per cent obtained in cases of acute puerperal infection This is contrary to the experience reported by some gynecologists who advise against using irradiation in acute febrile cases The author did not find the results any poorer in cases of inflammation due to gonorrhœa There were only two cases in which the inflammation was aggravated One special advantage of the treatment is the rapid and complete control of the pain which makes it possible to institute local treatment Several days are gained in this The author cites a case in which the irradiation brought about such marked improvement in the general condition and such reduction of the exudate that a cyst could be diagnosed and operated upon successfully

Roentgen irradiation effects a cure considerably more quickly than medical treatment. In the cases reviewed the roentgen treatment was associated with medical treatment and rest, which were also factors in the cure

Roentgen irradiation is indicated particularly in septic puerperal conditions In such conditions and the acute forms of inflammation of the adnexa it should be given as early as possible It is less effective in chronic cases Some gynecologists recommend temporary castration in these cases. In pelviperitoritis with extensive exudate the results are not so good and caution is necessary particularly if the general condition is poor The results are not good in endometritis and cervicitis Probably the intrautenne sepsis keeps up the inflammation in these conditions Pregnancy is not a contra-indication In the author's opinion there is no definite proof that the treatment is injurious to the child

AUDREY GOSS MORGAN, M D

Desjardins, A. U. A Classification of Tumors from the Standpoint of Radiosensitiveness 4m J Roenigenol, 1934, 32 493

As Ewing and many others have shown, variations in the radiosensitiveness of neoplasms are caused by a number of factors. Among these may be mentioned impairment of the blood supply, a disturbance of the anatomical relations which probably acts mainly by interfering with the circulation and lymphatic drainage and inducing the formation of connective tissue, cachexia, which is evidence that the patient's resistance to, and ability to hold his own against, the malignant process has been almost or entirely exhausted, sepsis, the influence of which is not understood, and previous irradiation.

# PHYSICOCHEMICAL METHODS IN SURGERY

Cutter M. The Problem of Radiosensitivity J

The author presents a critical review of the prob-lems of radiosensitivity from the standpoint of biological, pathological, and clinical knowledge, probsegment in the are of concern to the pathologist, sor gron, and the radiologist lie states that while formerly advanced cell cricmons was thought to to make squamers are currents was mought to be radiocentant by most investigators, the French se chool showed that the reassance of this timor was strong source user the removation of the summaries of the cutting to technique and douge Squanous cells are resistant to about interns exposures, but squamous cardinoms can be readily scriffined by done-continued low intensity exposures adequate in angeometrice are necessary especially which a squamous carcinoma stated to be radiorestrant by the pathologist was reachly destroyed by proper irradiation. He states that in expressing an opinion treatment in matter than in expressing an appearance from the foreign may be able to the foreign may be a supported by the supported by the supported by the supported by the su regarding removementarity which the surgeous may pathologist assumes a great responsibility. As the microscopic attracture of a timor is only one of a action between the pathologist and radiodenspiraty onesis tation between the pathologist and radiodenspiration of the radiosemittative of arrious jessions the modificación of the tensors and uniformaria yn the oscializations of the tensors and tensors and the contract of the contr tracture must be currented with other factors, untreature must be correston with some income, as checking the physiological, pathological, and chincal features of the problem. A knowledge of the fire determined to the deter history of the tumor is necessary for the determine theo of radiocality of America mataness indi-cate that the parely handlogical factors alone are care that the party materials of explain the response of

The choice between surgical and irradiation treat ment of given tumor is often difficult. The peinmen or pren tunner to taken numerous posterior and offer factors influencing the decision are operability and address elimination of operability in the subject of the subj identifies an instances of operations. The determination of the radioensitivity of a given tumor must be based on clinical experience, pathological data, and the on current experience, parameters used findings of experimental investigations sensitive tumor is defined as neopless that can pe combetely destroyed by correct jusqueno mitout permanent damage to the surrounding normal structures. Its cradication can be accomplished by scientification of by causic undation Se sective traduction sterribes the cancer cells without causing serious damage to adjoining tasses, but is possible only hen the difference between the radiosensitivity of the cancer cells and that of the sur councing normal cells is considerable. Nost tumors fall t meet this requirement. Nevertheless, the

radiosensitivity of tumors as the underlying puts ciple of radium therapy and differentiates the action open or samula merapy and outstanding or a too congulation Canalic Irradiation deffers from selective frachation in that it not only destroys the tamor but also actionally failure the attounding ass mal there. It is principle only to recorrection famors that are not too extensive. As extracted injury to adjacent normal structures results in radio minute to supercut the sim of radiotherapy to produce complete struttration ithout radonerous Evan s of the opinion that rachosemitivity is determined more by the intrinsic property of the cells of orgin of the tumor than by any other factor. According to this theory extinuic factors are of secondarian importance. General cooling of the theory factors are of secondariance. radioresistance whereas besting seems to increase

Most carenomata arrian from the epidemoid structures of the skin and success membranenamely the skim, lips, oral cavity tengor, touch, stance, tayou, playou, curve, and rapos—ar radocendere. On the other hand, adendards mata, melanomata, catrogenic serconata, and the sergments are redorminent and cardisons to of the brest occupy an intermediate position Of the ebecamond commonwate the scale boundary or me more form a more radioresistant than the transtional form Lympho-epithelioms is highly rada-

The anthor emphasizes that radioaccultivity does not mean curability and radioresistance does not imply incurability Intense irraduction may destroy resistant lesson adequated and cause asseth beatons to disappear dramatically but may be fel lowed by prompt recurrence or the formation of distant metastages. It is emphasized also that the complication of metastages abould not be considered is connection with radiosensitivity. Papellary is mone are rathogensitive though their statelested structure may indicate resistance. Instances that training this permople received. Superficial pupillers adenoma or low-grade adenoma malegnom of the body of the uterus can be eradicated by intranearing and external radium therapy. The thera-pentic test—namely the response of the timor to treadlation remarks the most accurate goods to the

radiosensitivity of the neoplesin The ortatanding successful results from tradetion therapy have been obtained in cases of exdermoid leasons of the skin and amount memberse Ancie from radiosemutivity, success in the treatment depends upon the extent of the disease ad the or rectness of the fradiation. When the indistrepast to tismpts t treat lexions which are assemble to surgery he accepts grave responsibility and most

not lethal in a quantity of 3 3 x 10<sup>-8</sup> mgm until the tissue had passed through twenty-nine subcultures. This fact is of importance as it shows that with smaller quantities a longer time is required to bring about the lethal effect. By comparison with exposures of 2 x 10<sup>-8</sup> mgm for nine days as compared with 300 mgm for six hours it was found that the lethal action of the radium is much greater when all three rays are used in contact with the tissue than when the tissue is exposed only to the gamma rays.

A James Larkin, M D

McCov, H A Necrosis Following Radium Treatment A Preliminary Report Med J Australia, 1934, 2 14

The investigation reported was based on the records of the Radium Clinic of the Adelaide Hospital, Adelaide, Australia

McCoy states that important contributing factors in the development of necrosis following radium treatment are unsuitable filtration and concentration of the radium. In the cases reviewed, unscreened surface applications of radium were frequently employed in the treatment of lesions of a type which subsequently have been treated by interstitial or distance methods. Monel metal or steel needles were buried in cases in which, today, only platinum needles are employed. McCov reports illustrative cases of unsuitable filtration and concentration. He states that in cases of large tumors adjacent to, or involving bone or cartilage the development of necrosis is inevitable because of the large dose necessary for treatment of the tumor

In several of the cases reviewed the decrease in radium sensitivity of tissues involved by central infection was apparent. McCoy says that failure to remove infected teeth preliminary to treatment of

the primary lesion in cases of buccal carcinoma may be responsible for unfavorable results. In several of the cases reviewed active syphilis was found with necrosis following radium treatment However, a positive Wassermann reaction was not invariably associated with delay of healing or necrosis. In the case of a patient suffering from active and extensive pulmonary tuberculosis the routine treatment of a small epithelioma of the lip was followed by necrosis and continued growth of the tumor. In several cases of epithelioma of the back of the band necrosis followed treatment with embedded radium needles screened by o 5 mm of platinum. It was later found that surface treatment with the use of the same needles and with moulds vielded much better re-Similarly, interstitial treatment of lesions near the nose and car was improved by the use of moulds In a small series of cases the interstitial treatment of an epithelioma of the neck was followed by delayed healing. The fibrous character of the subcutaneous tissues in this area seems to have been the underlying cause. Illustrative cases are cited

In conclusion the author says that the minimum filtration in the treatment of squamous-cell epithelioma should be 0.5 mm. of platinum. If the lesion is adjacent to, or involves bone, it o mm of platinum should be used when interstitial treatment is employed. When bone or cartilage is involved, surface technique with the use of moulds has advantages over the interstitial method. An attempt should be made to eliminate infection before radium treatment is undertaken. Syphilis should be treated before and during radium treatment. In certain lesions, particularly those involving bone, necrosis is inevitable if radium treatment is to be effective in destroying the neoplasm.

A. James Larkin, M.D.

The effect of previous irredation on the redusentifirmers of a tumor ray be practically reduerety great, according to the thoroughness with which the tumor was treated and the number of times the courses of treatment were repeated. A decrease in reducesabilteness from pervious irrediation is probably the result of the gradual economics profileration of connective times which follows the destruction of malignant cells (and, if the dose has been sufficient, of some of the connective times calls themselves) as well as the increasing institution of military tells of the malignant rath from repeated military tells of the malignant rath from repeated in the contraction of the contraction of the contraction of the contraction of the conportity times.

Another factor is the time factor of irradiation By this is meant the time over which given dose or course of treatment is spread. This depends on whether the dose or course of treatment is given at a single sitting, whether the total dose or course of treatment is divided into large fractions given in a number of sittings within a small number of days (from three to seven) or whether the done or course of treatment is divided into small fractions given to a large aumber of days (from seven to thirty-five) When the total does is given in one atting or in from three to seven sittings on secressive days there is little difference in the effect, but when the same dose is divided, as for example, into twenty-one fractions given on an many successive days, the effect on the peoplesm is much less and to produce the same effect the total does must be much larger. However with the exception of econdary infecting (separa) all these factors combined are less important than the natural radiosesses treness of the varieties of cells

In concision the ther says that the practical value of the classification of tennors given in this article will be doubted only by those who are not staillar with the natural radiosometrieses of different thirds of normal cells and their neopharite derivatives. The importance of such knowledge is conceiled to be greatest with reference to the radio-sensitive tennor because the difference in the radio the sensitive tennor because the difference in the radio the sensitive tennor because the difference in the radio the sensitive tennor because the difference in the radio the sensitive tennor because the difference in the radio the sensitive tentor of such acquired to the sensitive tentor of such acquired tentors, the sensitive tentor of the tennor observed as noderatory radiosensitive.

#### McLatosh, H. C. Changes in the Lungs and Pirura Following Reentjan Treatment of Gencer of the Breast by the Prolonged Fractional Method. Rabeley, 234, 3 358

Recognition of pieuropalmanta fallers far reset gen treatment of the thrast for camer of the brasst and introduced on the state and introduced multiparanes in all importance because of the morbadity and possible morbidity resulting from this conductor and herouse of the difficulty of differentiating between translation of the conductor of the state of th

The author reports four cases showing major degrees of piecepas of any authors and gives authors also not the depth down. For other cases are discussed briefly A possible also of age and arteriorderosis on the theorems of age and arteriorderosis on the theorems sonary and pleared batterys is suggested. The factors is the receipen (restiment were as obliven one by the piecepas of the piec

While the author grew with Desjardes, Group-Christia, Meritt, Cox, and when that the effect is quantizative he believes that in all case reports because the possible influence of age and artefasciences should be considered, and thet the jestication of this risk as regards primary mortificity and two-training and the hexard of intercurrent dissesses as executed previously and the property of the contraction of the contrac

#### RADIUM

Films, F. B., Victor J., Brilleman, N. and Mac Devaild, D.; The Action of Radorn on Three California. Am J. Contr. 514, 13 1571

The object of the study reported was to determine whether or not moto-active materials have a wrest etimoleting action on embryonic intens is now Radio-active sain takes into the body are fairly deposited in the abdron and gradually case the destruction of home cells.

The experimental work is described is defin and special transition to the smooth of radium und out the stechnique of the exposure South hasing slope and flask callures were employed. Tasce has firredulars obtained from the heart and orthodomer from the throof town the same from the throof town the same from the throof for imbores of seven as and eight days' incubation were med. Leaveyer and bose matrons were taken from ford less than year old. Comparisons were made between the original frame, the experimental thanes, and the callural from the same of the control. The results of exposures to various mass amounts or afform any above my tables and dis-

Frame.

Metabolic sturies relative the copys occupance were made in the case of above, and the energy of the control of above and the control of above and the second of the control of th

In conclusion was unther seats that the expension bearbole pieled as evidence of direct seasons are been by the amounts of radium to which the character were stepared. However they showed that irraduled cultures due to control collisions. This was are denied by their insidility to withstand temperature changes and differences in few plasms. Radium with the control of the control

not lethal in a quantity of 33x10---- mgm until the tissue had passed through twenty nine sub-cultures. This fact is of importance as it shows that with smaller quantities a longer time is required to bring about the lethal effect. By comparison with exposures of 2x10--- mgm for nine days as compared with 300 mgm for six hours it was found that the lethal action of the radium is much greater when all three rays are used in contact with the tissue than when the tissue is exposed only to the grimma rays.

\[ \text{UMES LAKEY}, \text{MD} \]

McCov, H. A. Necrosis I ollowing Radium Treatment. A Preliminary Report. Med. J. Australia, 1934, 2–14.

The investigation reported was based on the records of the Radium Clinic of the Adelaide Ho pital,

Adelaide, Australia

McCoy states that important contributing factors in the development of necrosis following radium treatment are unsuitable illitration and concentration of the radium. In the cases reviewed, unscreened surface applications of radium were frequently employed in the treatment of lesions of a type which subsequently have been treated by interstitual or distance methods. Monel metal or steel needles were buried in cases in which, today, only platinum needles are employed. McCoy reports illustrative cases of unsuitable filtration and concentration. He states that in cases of large tumors adjacent to, or involving bone or cartilage the development of necrosis is inevitable because of the large dose necessary for treatment of the tumor

In several of the cases reviewed the decrease in radium sensitivity of tissues involved by central infection was apparent. McCov says that failure to remove infected teeth preliminary to treatment of

the primary lesion in cases of buccal cardinoma may be responsible for unfavorable results. In several of the cases reviewed active syphilis was found with necrosis following radium treatment. However, a positive Wassermann reaction was not invariably associated with delay of healing or necrosis. In the case of a patient suffering from active and extensive pulmonary tuberculosis the routine treatment of a small epithelioma of the lip was followed by necrosis and continued growth of the tumor. In several cases of epithelioins of the back of the hand necrosis followed treatment with embedded radium needles screened by 0 5 mm of platinum. It was later found that surface treatment with the use of the same needles and with moulds yielded much better results Similarly, interstitial treatment of lesions near the nose and car was improved by the use of moulds. In a small sense of cases the interstitual treatment of an epithelioma of the neck was followed by delayed healing. The librous character of the subcutaneous tissues in this area seems to have been the underlying cause. Illustrative cases are cited

In conclusion the author says that the minimum filtration in the treatment of squamous cell epithelioma should be 0.5 mm of platinum. If the lesion is adjacent to, or involves bone, it omm of platinum should be used when interstitial treatment is employed. When bone or cartilage is involved surface technique with the use of moulds has advantages over the interstitial method. An attempt should be made to eliminate infection before radium treatment is undertaken. Syphilis should be treated before and during radium treatment. In certain lesions, particularly those involving bone necrosis is inevitable if radium treatment is to be effective in destroying the neoplasm.

A Jaurs I arki., M.D.

# MISCELLANEOUS

### CLINICAL ENTITIES GENERAL PHYSIO. TOGICAL COMPLITORS

Symmers, D Status Lymphaticus. Am J Surg 934, 15 ,

The author defines tatus lymphaticus as combination of hereditary constitutional anomalica, among which are certain peculiarities of configure tion with preservation or even hyperplasts of the thyrms at an age when involution of the thymns in the expected, hyperplana of the lymphoid cells to expected, hyperpasses of the symptom con-ing the spleen, miterine, and elsewhere, changes in the distribution of hear hypoplases of the vascular system, developmental deficencies in the greatalta, and incidentally visceral defects of uncertain oc carrence and irregular distribution

Although stams lymphaticus is compatible a th long hie sadden death may result from anaphylans caused by sensitization due to the matability of the lymphoid trame or from the avontaneous rupture of a habobiastic category sensel following an increase in the blood pressure. The lymphoid metabulty across

also to lower the threshold of resistance i infection It should be possible t recognize status lymphat cus during life from is clinical aspects. In the male these include a debeate texture of the skin, properboard graceful body female databasses of the public hears, scentiness of the facual and emiliary

graceful characteristics of the bodily configuration gracing unitarial rates on the form, proposed as a coroninate of 4,000 at open performed to the Bellevic Hospital, New York, status lymphatics. as found in \$40 (6 per cent). It was discovered 6 times mor often in males than in females

Of 8 cases of ell developed status h mphanens studied, the thymns was hyperplastic in all, the tonals are hierate affected in 50 per cent, and kyperplastic lymphoid follicles are found in the systems to appear to the series are many to the intestinal tract and sphere in 85 per cent. The Jumph nodes aboved samier hyperplane with a strains from anomer manner appendix with a former of lymphocytes tending to bring increase in the are ad number of the gamma! folicies In cases in which sudden death occurred these nodes showed necrotic changes characterized by change in the shape of the cells and the dis charge of nuclea dust into the intercellular spaces Germinal foliries ers replaced by whori its collec trom or against trim or connecture these type among which are large polyhedral cells reambling degenerated large happhocytes Symmers, these che gra indicat that sudden death in status is implications in related 1 an anaphylactic reaction caused by the audien release of nucleo protects formed as the result of the destruction of numerous germinal follicles

Cerebral hemorrhage is not uncommon in young non applifitie subjects of status lymphatics. It is due to the rupture of hypophesis cerebral arterior occurring spontaneousl or caused by apparath occurring speniances of cause of apparents trivial trauma physical strain, or interes entire ment Although sodden deaths in status ) implation have been sacribed to pressure of the entired thymns on the traches, anatomical systems of

traches compression or suffice tion have sever been observed for death t the Bellevne Howard Attention is called to the frequency of states lymphaticus in persons ho have ttempted smide, drug addicts, criminals, cyllerides, and the hause Its occurrence to succistion 1th cooperhalms poter and in persons who are emotionally unstable a common Apparently the bereitary anatomical defects of persons with status lymphaticus reader them more succeptible than normal individuals to

the influences precipitating crophthelesic gater The anatomical agus and symptoms of charges suggest that in girls with states lymphaters the form of aniemia is incidental. The author calls tiention ( the great frequency of states hopes

reas in total cases of scale injections decrees the as diphtheria and epidemic mentagriis.

In many cases of recurrent attacks of appraisable of an apparently mild type inference came the of the property mild type inference examination of the removed permut has revealed appropriate of the genuinal folicies, actions, and even obsters Don of the appendix in the absence of signs of an inflammator) expedition Macroca Merris, M.D.

Critchley M Some Aspects of Pain. Set M J 914

Attention is called to the limited also of the various biochessoal and metabolic changes that have t times been regarded as the effects of pain Many of the data obtained by animal experimentation are not applicable to the study of pun as process of human mental activity Para is personal sensory experience its existence in the individual depends on his word alone. As obvised difference exists in the pain reaction of individuals

t an pparently identical stimules. Even in the same individual the response varies major different conditions due to such factors as itention or as sociated rage, fear airdety or despair The perchological concomitants of pain are manifold Severe. scate pain usually dominates the letin's sensories. causing inability to concentrate upon physical er mental activities. When states of acrere pain are prolonged, marked psychological adjustments are to be anticipated Secondary sensations, most casemonly in terms of color, may occur

The discussion includes the problem of the effect of one pain upon nother the sessation of rivel from pain, pain as a pleasure sensation, and the relation of pain to sexual stimulation

WALTER H NADLER, M D

Blalock, A Shock Further Studies with Particular Reference to the Effects of Hæmorrhage Arch Surg, 1934, 29 837

In experiments on dogs the induction of profound an extensia for an extended time by the administration of sodium harhital or ether was associated with definite alterations in the tissues of the body. In some instances hamorrhage into the lumen of the intestinal tract occurred. The alterations were slightly more marked when ether was used than when sodium barhital was used.

The alterations in the tissues found following death from hæmorrhage after the use of sodium harbital, ether, or procaine hydrochloride in the spinal canal for the induction of anesthesia were only slightly less marked than those found following death from trauma when the same anæsthetics were used. However, the blood pressure remained at a low level for a longer time in the experiments in

which trauma was produced

In a comparison of the results of experiments performed under sodium harbital, ether, or spinal anæsthesia, in some of which death was caused by hæmorrhage and in others by trauma, it was found that the quantity of fluid in the injured extremity in the experiments in which trauma was produced was approximately equal to the amount of blood withdrawn in the experiments carried out to determine the effects of hæmorrhage

Maintenance of the mean arterial pressure at approximately 70 mm for three hours by the injection of acetylcholine or hy increasing the intrapericardial pressure was associated with marked alterations in many of the tissues of the hody. The mucous membrane of the intestinal tract became red and hamorrhage occurred into the lumen of the tract.

Removal of blood in small amounts at frequent intervals from animals under local anæsthesia in such a manner that the blood pressure was at a low level for as long as possible preceding death was associated with capillary congestion and dilatation in most of the organs and hæmorrhage and necrosis of the cells in some of them. Hæmorrhage into the lumen of the intestinal tract was observed in most instances

Maintenance of the blood pressure at a low level for several hours prior to death by combined removal of blood and introduction of blood was associated with marked alteration in the tissues. The changes appeared to vary directly with the length of time the blood pressure remained depressed. The animal's own blood was used for the replacement and coagulation was prevented by defibrinating the blood or placing it in a solution of sodium citrate or heparin An increase in the concentration of the red blood cells occurred in more than half of the experiments

In other experiments in which local anæsthesia was used the blood pressure was reduced by hæmorrhage

and was kept at a fairly constant low level for several hours by removing additional blood or by introducing blood by the direct method from a suitable donor. Death occurred in all of the experiments despite the fact that slightly more blood was introduced than was removed. The gross and microscopic changes in the tissues were marked. Tree blood was present in the lumen of the intestinal tract. An increase in the concentration of the red blood cells occurred in all of the experiments.

The average quantity of blood remaining in the pleural and peritoneal cavities following removal of the organs was approximately the same in the experiments in which death was produced by hamorrhage and in those in which death was caused by trauma to

an extremity

With regard to the differentiation of homorrhage and traumatic shock the following statements are frequently made

r Hemorrhage is associated with a decrease in the concentration of the red blood cells, while shock is associated with an increase

2 Death following homorrhage is associated with an anomic appearance of the tissues, while after death following shock the tissues show homorrhage and congestion

3 The low blood pressure resulting from hæmorrhage is promptly corrected by blood transfusion, while shock is not greatly benefited by transfusion

The author's experiments show that shock associated with an increase in the concentration of the red blood cells, capillary congestion, hæmorrhage in the tissues, and a negative response to the transfusion of blood can he produced by hæmorrhage alone

SAMUEL KAHN, M D

Dévé, F Intermediate and Transitional Pathological Forms Between Hydatid Echinococcus and Alveolar Echinococcus (Bavaro-Tyrolienne) in Man Australian & New Zealand J Surg., 1934, 4 99

The author states that the exact nature of echinococcus alveolaris is not known. Dew and others claim that all hydatid lesions are the same and that polymorphism is due to parasitic variations. Posselt, on the other hand, emphasizes the parasitic specificity of echinococcus alveolaris. The zoological and histological arguments have not heen substantiated and animal experimentation has failed to produce the alveolar process. In the classical alveolar hydatid disease the findings of pathological examination are the same whether the liver, lung, brain, or bone is involved, and the alveolar characteristics are retained whether metastasis occurs by lymphatic paths or the blood stream

The author discusses the pathological findings in three cases which he claims disprove the theory of a parasitic duality of the echinococcus. The first was a case reported hy Orth and Schmeta in which, in addition to a hydatid cyst of the spleen as large as a man's head, numerous smaller cysts such as occur in multilocular echinococcus cysts were found

Dêvê belleves that this case showed a definite metamorphosis from the hydatid echinococcus lat the alveolar form. The second case was one reported by Welchselbaum, Kolisko, and Posseli to which a primary coincident development of alveolar and cyrtic hydatid echinococcus occurred in the heart without involvement of other organs. The author ciains that on re-examination be found as lutious mingling of the hydrid and quad-aheolar lesions which renders duality of the lesions unbiely He believes they were a neries of transitional forms The third case was one reported by Dew In which the il er showed among the fundamental alvectar lesions annually large cyatic exvities filled with hydatid hould. Here an alveolar echlococcus gave rise to a quasi-hydatid execular formation. Apart from the special example of bone echlaomerus. transitional cases of this blod have been rare, but the uthor believes they will be recognized more frequently when all cases are studied more carefully

Derf concludes that these three cases have firmly stabilished the cristener of transitional forms be there thyritid rethingorous and streolar echieococcas in man, and confirm the theory of the para sits whether of the enhinococcus.

CLASSINGS C REED, 31 D

Walkren, A. The Value of Calcurtte Vaccination in the Prevention of Tuberculous in Child-hood, J Au M An 934, 43 541.

The author presents the results achieved up to the present time in an experimental antisubercolors vectoration of human beliefs. The vector he need is composed of an originally rirulent strains of horizotaberche hacilies which, by certain methods of cultivation, has been readered very need? Indient

With report to the activy of such vaccanation be staten that it a careful such current story of the synthesis terre that it as careful such current story of the synthesis interestory be found that, up to the prevent time, not one of the million challers who has a been vaccinated have suffered any revokent harm from accredibly properly about the major of such that the proposed vaccination of the proposed vaccination of

The results of the people listic acclusion introduced by the thorm or yar a shows as a chart in the 1 fire year periods numediately percentage in the tendence of the control of the people of the tendence of

Il ligrer concludes that the course of the more taking curs constitutes definite proof that the prindiples he has followed have been efficiences in the purely practical applications of antituberculous was tine as a prophylactic measure against tuberrake in the children of the community Human F Tenano, 41

Dennally H. H., and Kirshan, M. M.; A krady of Vaccination in 500 Newborn Infants. J. J. M. Ars. 1834, 105—269.

Smallpox vaccination of newborn infacts is a sale procedure. Its compilirations are negligible, its ladderage on growth and notrition is lastpainers,

and it is seldom followed by tever.

The akin reaction tends to be slight in extent, and
when Lerials a neethed is used leaves beined only
small superficial scars. Adjustment between the
potency of the virus and the locusation between the
may faster encounted results from the first various.

their in at least on per cent of the cases.

Another the description is a section that is has been practiced successfully since Jenner's these. The hydrochatance of newborn infants to successful residuancy in the distribution of proving, young thesees, but possibly also to other factors.

Actin acquired immunity may decelop proceedy and may persist will ever a year probably larger. In the cases of foundings in Russia which were raccidated abortly after both, observations untioned with the subjects were t engly-due pairs old ere-aided every alight morbidity in the 15 wallpour reidenies overstrage in the period between

ides and risso.

In conclusion the nutbers stat that variouslies at hirth is a practicable means of increasing reserved against smallper in a large group of secret in which it is most needed when the proof test is proceed to do likewit this protection for statif and for the community until it is forced to obtain its rebood are. Succer. Karv., H.D.

Plabler, G. E., and \unifor J. H.: The Treatment of Epithelioms of the Skin. Relieft 194

3 54 Cancer never begins in normal thror Cancer of the skin nearly always develops ery slowly and in advocaly the difference in the condition between are month and the next being slight. Because of the fact the patient has a f ise sense of security Moles, particularly those of the pigmented rariety as occur singly or in large numbers. It is probably true that not more than I in 2,000 becomes malignest If a mole is not treated skillfully hen the charge from the benign to the malignant condition acrars, extensive metastases are likely to read: Therefore It is best to remove all moles, especially rights of a precautionary areasure. It is advanta also to remove all warts, particularly sen le warts, and any abnormal cruets, becore, or chrock sken. These can be eradicated under local aurathesis st one nating by desection or electrocust latter

Large were often develop splithelionate helusually begt as small fastores or errors; then gradually spread. This type of epithel are in equations-celled. As only renoval of the entir scar hy electrothermic dissection is advisable Moles, warts, scars, and epitheliomata in scars are usually not treated successfully by irradiation alone, and are

best destroyed by electrocoagulation

Epitheliomata of the skin may occur as single or multiple lesions, but are usually single. They develop as a rule on the exposed parts of the body Not all epitheliomata of the skin are of the basal celled type Fifteen per cent are of the squamous celled variety Since squamous celled carcinoma may give rise to metastases, not only the local lesion, but also the associated lymphatics must be treated The treatment of epithelioma of the skin depends in great part on the size, depth, duration, and location of the lesion Between 70 and 90 per cent of epitheliomata of the skin can be cured by irradiation either with radium or the X-rays This is the method of choice in cases in which scarring is objectionable scarring is not objectionable, the area around the lesion should be electrodesiccated, the bed of the lesion then destroyed completely, and this treatment followed by a full erythema dose of X-rays or surface applications of radium. If, on biopsy, the carcinoma is found to he squamous celled, the neighboring lymphatic glands should he treated with filtered irradiation and high voltage X-1ays

In Bowen's disease, the patient may have as many as 100 epitheliomata, varying in size from that of a pinhead to that of a fist. Under general anesthesia most of the lesions may be removed at one sitting

Basal celled epitheliomata are of 2 types typical lesion of one type seems to develop as a papilloma which may be of varying size. In lesions of the other type there is very little overgrowth of tissue, but ulceration occurs, producing the rodent ulcer When treated early, the rodent ulcer can be easily cured by radium or X-ray irradiation or electrocoagulation When it has extended into the muscle or deeper, its treatment is very difficult. Occasionally the advanced lesions can be arrested by irradiation, but recurrences may develop. As a rule it is best to destroy the deep lesion completely by electrocoagulation Even if hone is involved, the bone area should be destroyed and then the de stroyed area should he resected down to healthy hone or the destroyed hone allowed to sequestrate

In the treatment of epitheliomata of the skin it is usually necessary to give a total of from 4 to 10 erythema doses. Most failures are due to insufficient treatment. The incidence of recurrence is increased when soft rays are employed. Samuel Kahn, M.D.

Bucalossi, P A Histological and Critical Study of Myxomata and Myxomatold Tumors (Mixoma e tumori mixomatoldi Studio istologico e critico) Clin chir, 1934, 10 831

The author reports two cases of myxoma, in one of which the tumor occurred on the antero-interior surface of the thigh of a man sixty years of age and in the other on the forearm of a woman fifty-five years of age. In discussing the histological findings in these cases in detail he reviews the whole question

of the nature of my romata and the differences between these tumors and other neoplasms which have undergone myxomatous degeneration that myxomata may develop in a mucous tissue which is completely differentiated or in one which is not yet completely differentiated Of most importance from the practical point of view is the fact that while the morphological appearance of the two varieties of tumor is the same, their clinical course may be very different Those that develop from completely differentiated tissue are benign, while those that develop from incompletely differentiated tissue may become malignant. As it is impossible to differentiate between them histologically, the only safe course is to consider all my comatous neoplasms potentially malignant and operate upon them AUDREY GOSS MORGAN, M D radically

Lumsden, T, Macrae, T F, and Skipper, E The Direct Demonstration of Anti-Cancer Bodies in the Scrum of Animals Immune to a Homologous Tumor J Path & Bacteriol, 1934, 39 595

In a series of articles published by one of the authors (Lumsden) during the past ten years, strong and cumulative experimental evidence of the existence of specific anti-cancer bodies was presented Although this evidence has been widely accepted as adequate, a few observers have remained unconvinced hecause the presence of the anti-cancer hodies had never been demonstrated in an animal immune to a homologous tumor (e g, a rat immune to Jensen's rat sarcoma) or in the blood of an animal in which a tumor was regressing. This difficulty has heen surmounted as the presence of anti-malignantcell bodies can now he shown directly and conclusively by application of the serum of rats immune to Jensen's rat sarcoma to tissue cultures of Jensen rat sarcoma cells under the conditions described by the authors In the authors' opinion the essential factor in immunity is the power to produce antibodies rather than the actual presence of antihodies

The antibodies are formed when the immune animal has need of them as, for example, after an implantation of Jensen rat sarcoma. An immune rat which has not been injected with Jensen rat sar coma for a period of many weeks has only a very low titre of antibodies In every one of more than forty rats immunized against Jensen rat sarcoma a high titre of anti cancer hodies was demonstrable in the serum within one week after the last immunizing inoculation Anti-cancer hodies are not demonstrable in the sera of normal rats or of rats bearing a progressively growing tumor Rats in which a tumor is regressing develop pari passu anti cancer hodies in their sera These anti-cancer bodies have an affinity for cancer cells alone and are quite harmless to nomal tissues They are toxic to malignant cells of any variety, not only to those used as antigen The ability to produce the anti cancer bodies when they are required is an essential factor in acquired. and probably also in natural, tumor immunity

JOSEPH K NARAT, M.D.

#### Gaudolfo, A.: Rofto a Test in Gaucer: Statistical Results of 11,000 Cases. Am J. Cascor 1934, phj.

In 1915, Roffo, in 'sperimenting on sera of normal and cancerous rats, discovered that it's drops of x per cent neutral red in dutilled water are acked to x c can al fresh class secures the serum will become red if it was obtained from a noncerous assimal and yellowish it has obtained from a normal assimal

At the Compress of the Latta-American Confederation for the Study of Cauer which was held in Montrevidoo in 1920, the results of 8.51 tests made on 11 coo patients at the Institute of Experimental Medicine at Reason Aures were reported.

The percentages of positive results obtained by various investigators are austractized by Gandolfo as follows:

	Corre Codes
Rofe.	61.0
Catmentano	79
Cappezzano Astrakh	~
Polar and Eterna	£.
Arays and Yegman	2.
Carrage	5, 1
Codings and Akkernersa	<b>a</b> .
Thomas	90 61 5 6 8 75 74 1 60 5
Benc Bajo	73 47 ap 50 0 p0 7 p 0 40 4 80 77 80 40 5
Baic	90.0 20
Acreeda	7 00
Endle and Piler	0
(idecowicz	JO 17
Ruffo and Correa	83
Carrenas Gercia Avria	434 3
Gercus Avrin	•
Morette and Bream	and the second
Rose Cros Stores	1,6 346
Hostin	616 1

Of the 1 ,000 tests reviewed by the author, 4,18 were made in cases of outcort and 6,7 8 in cases of other diseases. The cases of cancer are chardled according to the distation of the disease, the view of the reaction (whether it was strongly positive weakly positive, or negative) and the location of the cancer.

In the cases of non-cancerous desease the incidence of positive reactions ranged from 5 to 8 per cent and averaged 6 17 per timi

I the cases of skin cancer in which the results of the test are poorest, the results or was positive in

38 41 per cent of 1 tests.
Of 840 cases of cancer of the mouth, the result was positive in 52 per cent.

Was positive in 52 per cent
Of 675 cases of caseer of the guitto-intestinal
tract. I was positive in 6 6 per cent

Of 1st cases of entere of the respectory tract, it
was positive in 75 per cent

Of 9 cases of cancer of the liver t was positive in Eq. 20 per cent, and of 13 cases of caser of the pancress, t was positive in Eq. 6 per cent is all cases with jumifice t as magazive Of 477 cases of cancer of the breast, the martise was positive in 50.53 per cent. In the case of 48 patients operated upon in other hospitals and show ing no recurrence, i was negative

In 40 cases of cases of the male geotto-uniony tract—cases of cases of the bladder practic, has say and testicle—the teckence of posture readriaged from 60 to 80 per cent, but in the case of cases of the peaks it was 44 per cent

Pastire results were obtained in 68 33 per cut of the cases of uterise cancer 78 up per cent of those of ovarian cancer 39 up per cent of those of cancer of the varian, and so 6s per cent of those of cancer of the vulva.

In cases of caseer at other sites, particularly cases of internal acoplesms, the percentage of positive

results was high

Rollo's test is not specific, but is of value as as auxiliary method for the diagnosis of caseer.

Although negative results do not exclude the presence of cancer positive result should fader continued levestigation to theorem the growth since in 6,7 6 tests the uncleaser of lake positive results was only 6.17 per cent.

Roof by test has yielded a high personage of partive repair in teams of cancer of the attent, open the repair in teams of cancer of the attent, open planting and cancer of the attent party and and mediatelium and in cases of ourseascens, and of which generally present dangeaute chilectures in the conditions in which if year to be one contage of possible results bloogy in casualty possible Wilking E. Sancarson, M.D.

Enderion Indications for Early Operation (User the Indication say Frankoperation) Science and Welsonder 934, 4 h

In many different surgical procedures the bot functional results with unional operative darger are obtained it this operation is performed early. On the basis of his ratiosave surpreference the author keys dark the rules which he has found of whice.

The motivation for early operation in approaching agencylly recognised. However as earth designer is required because in cases of recent selectal states, generoccal personality, typion, result and survival atomes, exclosureds, and personalisations, and the selectation of the selectation of the selectation of an abdocument ones to require a survey is sufficiently personal ones to require gaugery is sufficiently personal ones.

Localized abscrases should be opened only site the condition becomes progressively ora, the semperature continues to rise, the pair as present becomes usors severe and the isomorphish isomorphism though the present and the isomorphish isomorphism though the present and the isomorphism and the removed only what it be readily accessible.

In preemococcus peritouris the demonstration of the organism in the blood or the vegual screen supports the dangardis. Early operation is not to be recommended, but the abscesses abould be questioned and preemococcus serum should be administered later. In acute pancreatic necrosis early operation does not appear to influence the process materially

In paranephritic suppuration there is no need to

hurry operation

Gall-stone disease should not be compared to inflammations about the cacum. In the former condition the mortality is essentially higher and operation does not always result in definite cure. Enderlen recognizes the following indications for operation on the gall bladder (x) severe empyema, (2) hydrops (because of the danger of the development of empyema), (3) increus (after two or at least three weeks, because of the danger of cholæmia), (4) social indications, and (5) more remotely, the danger of the development of carcinoma

In ulcer of the stomach and duodenum operation is indicated early only in case of perforation, otherwise it is indicated only after one or two well conducted ulcer treatments have failed. The older the case (ulcera callosa), the better are the results of

extensive resection

In empyema, operation should always be preceded by a number of paracenteses Suction by the Perthes method accelerates the expansion of the lungs

In cases of abscess of the lungs, the focus remains limited for several weeks and operation may be

delayed for six weeks without anxiety

In cases of enlargement of the prostate early operation is not urgent. Only a continuous catheter life and residual urine constitute indications for intervention, and these only when supplemented by determinations of the renal function, residual nitro gen, and indican

In Basedow's disease operation may be done when a two-months' course of internal treatment or of irradiation treatment (which in itself is not without danger) has failed to cause noteworthy improvement

In cases of epidural and subdural hæmatoma,

early operation is life saving

Umbilical hernia is an urgent indication for early operation, as is also incarcerated, congenital inguinal hernia

The imperfectly descended testicle may be left without operation until the minth year of life

Early operation is not recommended for phimosis, epispadias, bypospadias, or exstrophy of the bladder

Harelip should he operated upon as soon as the nutrition of the child permits it, and cleft palate should be corrected surgically at the end of the second or third year of life

Wry neck should not be operated upon before the end of the second year of life

Operations for syndactyly should he delayed until the sixth year of life

(A Brunner) John W Brennan, M D

Goyanes J Air and Fat Emboli and Their Surgical Importance (Sobre las embolias de aire y grasa y su importanca q ururgica) Actas Soc de cirug de Madrid, 1934 3 179

Air emholism may occur in any surgical operation It is most common in the "dangerous zones" in the

lower part of the neck where bubbles may enter the jugular vein, especially if the vessels are displaced by large tumors. Caisson disease is an example of general air embolism. In attempted abortion and placenta prævia, air may enter the placental vessels. The use of hydrogen perovide in wounds may cause air embolism.

The chincal picture of air embolism due to only a small amount of air is the sudden development of asphyxia, palpitation, stabbing pain in the chest, and dizziness. Cerebral symptoms are loss of consciousness, loss of vision, and contractions and

pareses of the muscles

Air cannot enter the veins unless the pressure in the veins is less than that of the atmosphere. On forced inspiration pressure is lowered in the thorax, the blood from the large veins rusbes into the beart cavities, and the pressure in the peripheral veins is reduced to less than that of the atmosphere The vessels of the neck are surrounded by aponeurotic fascia which keeps them from collapsing, thereby favoring the entrance of air into these vessels when they are injured The patient's position is important If his head is lowered in injury of the vessels of the neck the negative pressure in the veins becomes positive and hemorrhage occurs instead of the entrance of air into the veins. This has been demonstrated in experiments on animals and is of great value in prophylavis

Death in air embolism is variously explained Kleinschmidt attributes it to a combination of over-distention of the right auricle by air and obliteration

of the capillanes and artenoles of the lung

In addition to general stimulating treatment, direct aspiration of the air from the beart may be tried in grave cases. In cerebral embolism little can be done besides the administration of stimulants to raise the blood pressure with the object of dissolving the air. Other methods of raising the pressure are energetic flexion of the thighs on the pelvis and ligation of all four limbs

Fat embolism is obstruction of capillanes and small arteries by fat droplets. It generally follows fractures It is best prevented by careful handling of patients with fracture and the avoidance of long transportation of such patients if possible embolism may develop within a few bours or more than seventy-two bours after a fracture In severe cases death is soon caused by blocking of the capillanes of the lungs The symptoms in these cases are a feeling of great oppression in the chest, intense dyspnæa and cyanosis, and, at times, the expectoration of blood. If the patient does not die soon, kidney and brain symptoms develop as the result of the entrance of fat into the capillanes of these When a patient enters the hospital in a condition of stupor following an accident causing fracture a differential diagnosis must be made between shock, concussion of the brain, and fat The blood and urne should he tested emholism for fat and the eye grounds examined In the differentiation of fat embolism from shock and concustion of the brain which come on at once, the free interval in cases of fat embolism is of aid. Forcer may occur in fat embolism, but is not characteristic. In animals the temperature generally falls

In the treatment the Inimeronia infection of admenal may improve the directation in the polsonoury arteries. The author advises cutheransation of the right auricles and the injection of adressilin into the heart. On the basis of the theory that the start is carried by the lymphotics, Willias advises opacing of the thoracie duct. The operation is district, the latest clearer of the fatink is driven difficult. From experimental and clinical observations of the control of the control

#### SURCICAL PATHOLOGY AND DIAGNOSIS

Gabrielli, S. The Takata Ara Reserton in Sergical Conditions (Le reagons de Takats-Ara segiammalari de interese cherergica) dech Rel di Ne 314, 38

The author carded out the Tekata-Are test on the second of about 100 pathents with various surposal conditions. In primary or secondary disease of the hree or the entralepants bibary passages, and expecially in measurchymal issues of the lower the reaction was often positive. In the vicines issue of chrobods it was slawny positive, rera in the pronece of audies, except when the lexico was of only 
modernia pervisivity. In patients with densess of the 
liver it was always negative in the present of 
jaunolice. The author attributes this hact to the 
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the traction was positive less often that his hepter 
diverses.

Operative control and historethological studen carried out on some of the patients tested led to the view that the positivity of the test is dependent upon the reserves of benetic changes of an infant matory or degenerative nature. Gabriells modules also that it is related to a disturbance of the poste clytic power of the liver since he observed that is some patients with hepetic duesse the test showed a pathological result after the administration of a large amount of protein by mouth. He states that the test is of value in the determination of operative risk, and that the results obtained before operator should be compared with those obtained in the past operative period. He discusses the results of trute carried out after various operations 1th repark to their prognostic significance and to the administration of drugs which act specifically on the brer He reports also his findings with regard to the behaves of the reaction as affected by vanous components Frances T Lenor, M.D. of bale

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# SURGERY OF THE NERVOUS SYSTEM

# Brain and Its Coverings: Granial Nerves

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## Surgical Pathology and Diagnosis

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# International Abstract of Surgery

Supplementary to

Surgery, Gynecology and Obstetrics

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### CONTENTS

1	Index of Abstracts of Current Literature	111 <b>-</b> V1
11	Authors of Articles Abstracted	viii
Ш	Abstracts of Current Literature	297-375
IV	Bibliography of Current Literature	376-400

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# CONTENTS—APRIL, 1935

## ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK		Churchill, E. D. The Operative Treatment of Hyperparathyroidism	374
Eye			
DORRANCE, G M, and LOUDENSLAGER, P E Phy sological Considerations in the Treatment of		SURGERY OF THE NERVOUS SYSTEM	
Pulsating Exophthalmos	297	Brain and Its Coverings, Cranial Nerves	
JAMESON, P. C. The Use of Thyroxin in Ophthalmol ogy. Its Application as a Local Agent and Its Action as a Metabolic Alterative	298	ZORRAQUÍN, G., POU, M. B., and URCARAY, L. Treat- ment of Asphyxia of the Cerebral Cell in Trau-	
FRIEDENWALD, J. S. Notes on the Allergy Theory of Sympathetic Ophthalmia	298	matic Accidents and Their Vascular Complica- tions by Subcutaneous Injections of Carbon Dioxide	306
THYGESON, P The Ethological Diagnosis of Conjunctivitis	298	VILLAREAL, F V A New Technique for the Treat ment of Traumatic Block of the Ventricles	306
TRIGESON, P The Etiology of Inclusion Blennor rhoza  MacCallan, A F Trachoma in the British Colonial	299	STIER, E The Importance of Investigation of the Equilibrium Apparatus for the Judgment of Old Head Injuries	207
Empire, Its Relation to Blindness, The Existing Means of Relief, Means and Prophylaxis	300	ROHDE, W Primary Melanotic Tumors of the Central Nervous System and Its Membranes	307
Hageboorn, A. Adenocarcinoma of a Meibomian Gland	301	PUECH, P, and STUHL, L Roentgen Study of Tu- mors of the Hypophysis and the Hypophyseal	301
CASTROVIEJO, R Experimental Detachment of the Retina	301	Region  Kornblum, K, and Osmond, L H. Deformation of	307
Ear		the Sella Turcica by Tumors in the Pituitary Fossa	308
TAYLOR, H M Prenatal Medication as a Possible Etiological Factor of Deafness in the Newborn	301	BALADO, M, and PARDAL, R. Surgical Treatment of Hypophyseal and Perihypophyseal Tumors	308
Nose and Sinuses		ELSBERC, C A, and DYKE, C G Meningiomata Attached to the Mesial Part of the Sphenoid	
Watson-Williams, E. Cancer of the Nasal Accessory Sinuses. With Reports of Thirteen Cases	301	Ridge with the Syndrome of Unilateral Optic Atrophy, a Defect in the Visual Field of the Same Eye and Changes in the Sella Turcica and in the Shape of the Interestination Cutter.	
Mouth		in the Shape of the Interpeduncular Cistern After Encephalography	300
DE CHOLNOKY, T Round Cell, Spindle Cell, and Neurogenic Sarcomata of the Lip	302	DUEL, A. B. Operative Treatment of Facial Palsy SHUMACKER, H. B, JR, and FIROR, W. M. The	310
FRIEDMAN, M, and RUBENFELD, S Malignant Neo plasms of the Upper Respiratory Tract in the		Interrelationship of the Adrenal Cortex and the Anterior Lobe of the Hypophysis	375
Young	302		
Pharynx		Spinal Cord and Its Coverings	
REUTER, F The Results of the Treatment of Malig nant Tumors of the Ear, Nose, Pharynx, and		Намовти, Е М The Treatment of Syringomyelia by X-Rays	310
Larynx in the Period from 1924 to 1932 Wood, G B The Peritonsillar Spaces An Anatom	302	Sympathetic Nerves	
ical Study	303	DAVIS, A A. The Surgical Anatomy of the Presacral Nerve	311
Neck			5
GOETSCH, E The Correct and Incorrect Use of Iodine in the Treatment of Goiter	30.4	SURGERY OF THE CHEST	
Birkert, H. S Lipoma of the Larynx Intrinsic in	1	Chest Wall and Breast	
GARLAND, L H Carcinoma of the Larynx	304 304	Top, M. C., and DAWSON E. K. The Diagnosis and Treatment of Doubtful Mammary Tumors	312
		111	

3 5

3 5

2 5

316

3 6

**z** 6

:53

12

a n

311

114

. .

. .

#### Traches, Lungs, and Pleurs

KRADER, H. The Influence of Different Degrees of Distinution upon the Blood Flow Through the Lune

RIVGER, P. H. Surgery in Palmonnery Tuberculosis Its Increasing Importance

Brove, H Long Aborns

Enw and, \ T Malegnant Durant of the Luar FAMRAS, P. L. Seral Breachegraphy in the Early Diagnoss of Breached Curren

GENERALTER, C F and Drivers, R. Primary Carcinorus of the Lune

Jamason, C. L. and Konzennavy F W. Bruschel Carcuson TUTTLE, II McC and Womace, \ 4 Broachie genic Caremona A Classification in Relation to

Treatment and Programs RABIN, C B and NECROP, H A Topographic Classecution of Presery Cancer of the Lang Its Application to the Operato Ladreston and

Treatment ECONOS. C. Labertoury for Carcanana of the Loan 3 7 OVERNOUS R II The Total Removal of the Right Lang for Carcinoma 3 6

#### Beart and Perfordings

HIRKER, I S. The Application of Kyrnoroestgener raphy to the Duquess of Cardine Ducase STUDIES P "C Ray F ymography of the Heart

#### Constance and Medicatorem

OCHERTAL A and Owners h. Ascernthorness (Enhapoplesty for Impermeshie Structure of the Frances

SOUTTAR, If S. Cancer of the Gamplague O'SE togresser L and RATE: R W Surposi Exposure of the Cambague

POYUM R LEDRARY, M and PARLAR, J E SAF comets of the Mediestoni Glande

#### SURGERY OF THE ADDOMEST

The Basers Operation and the

#### Abdentual Wall and Penteurum

Browner Hackenbruch Drucner Schmaden and Emchaer Operations GOVERN M. and SURBERFRIE F. Results of Further Clencal and Vacrobiological Studies of Peri

tomin and Its Prevention and Treatment with berten M no. V An Amazomopathelogical and Chaucal

Contribution to the Study of Printary Tunners of the Mescatery

#### Gastre-Intestigal Trett

CATTERIN

#### RANGED TOTAL C. The Operation Treatment of Hyper

tropic. Stenous of the Pylorus is Infants The Functional Decamement of the Bown I Integrate That Follows Abdenues Operations (MEDICA, C. E. Jr. and HART D. Assembles of Intertmal Retation as Came of Intestinal Obstruction Report of Two Personal Observa times Review of an Reported Cases

Exusus, R. The Danger of Suckies Defiction of the Acutely Descended Servel in Late Law Interpret Obstruction HEATOCK, C. H. Calcifontion in Intestinal Taberca

376

r M

P

3 7

329

274

119

770

110

14

311

L)É

117

ett

-RANKIN, F W and Marrie, W J J Dererticula 214 14

of the Small Board JOSEK, T. M. Tumors of the Small Intertion

STEPSTEE, M. E. and State, P. H. The Factor of Spann in the Enology of Peptic Ulcars Kayron, J. L. Anonther of the Color Their Roestgen Diagnoss and Church Seguificancy

A Résent of Ten Yours' Study Data topps, 1 and Valuecont, R. The Rorse Appearance of the Macous of the Colon to

Pathological Conducine. DAVE, V C. The Pathology and Treatment of Bleeding Polypoid Tumors of the Large Bowel

BOWER, W. H. A Study of the Etiology of Approdenta McKreecz, W. Hawatura in Appendicha

One, J. P. and Bowier, J. P. The Management of Perforated Appendicates C REPORT G. A. Abdormal Wall Defects Follow ung Appendicectomy

Piccentso, O Southa's Jump and Hyperplants Interimal Teleproduct

To years, T. E. B. Souple Hannorrhage Processes and Proctomposed be Museux E. T. C. and Monday, C. N. The Ser. great Anathory of the Anal Canal

Liver Gelt Elastier Percents, and Select

11 Ivy A C and Brace, G S Applied Physiology of the Estrabepatic Behavy Tract . . STERARY, W. H. and Litters, H. E. Bourns of En

in Oral Cholocystography with Suggested Veth-ads of Carrection LARRESTE, R. C. Chronic Conventive S.

guly and He Reintonehop to Ranti's Dunes

#### GYNTCOLOGY

Uteres Sata N. F. The Treatment of Gental Prolepse 335 Va your, If and Horracove, Il The Radson Trentment of Bersen General Recoveringes 119

BOLATTI, R. Prekypophyseal Hormoners to Hale and Tensors of the Uterss, Considerations and Researches IJŚ.

Sameon, J.A. The Lougations and Descent of the Intra Uterne Application of Radium in the Treatment of Cartinoma of the Body of the 124 Uleres

. . STRALY W P and Avenues, A W Radiation Treatment of Carrinous of the Cervis

#### Adaexal and Perestoring Conditions

NOSAK, E., and BRAWSPR, J. V. Jr. Grandon-Call Tensors of the Overy

#### External Gentrile

MERCIER, O. Personal Technique for the Core of Хрирафия и Коппа

Miscellaneous		Bladder, Urethra, and Penis	
WIESNER, B P The Postnatal Development of the	38 38	Fres Ais, J Cutaneous Ureterostomy in the Treatment of Persistent Cystitis After Nephrectomy for Tuberculosis	347
Genital Organs in the Albino Rat  BUTT ANDT, A Recent Progress in the Study of		Genital Organs	
Sex Hormones 3.		REAY, E. R. The Surgery of Prostatic Obstruction	348
DONEDDU F P The Influence of Thymectoms on	40	REGGIAM, M. The Behavior of the Testicle Following Partial or Total Removal of the Parietal Portion of the Tunica Vaginalis	348
OBSTETRICS			
Pregnancy and Its Complications		SURGERY OF THE BONES, JOINTS, MUSCI	LES,
DAYA, L., and SEARINGHAUS, E. L. Analysis of Errors Inherent in Pregnancy Tests Based on the Aschheim Zondek Reaction 3.	41	Conditions of the Bones, Joints, Muscles, Tendons,	, Etc
ASTRINGLY and GRINNER Gonorrhota and Preg- nancy 3	41	LUCCHESE, G The Influence of the Suprarenals on the Formation of Bony Callus	340
STANDER, H. J., and CADDEN, J. F. Blood Chemistry	4-	CLLIS, R. W. B. Osteopetrosis (Marble Bones, Albers Schoenberg Disease, Osteoselerosis Frag- ilis Generalisata Congenital Osteoselerosis)	349
	342	RICHARD, A, DUPUIS, P V, REDERER, C, and FROYEZ, R The Dyschondroplasia of Ollier	330
Labor and Its Complications		Masselot, F., Jaubert de Beaujeu, A., and Bloch, E. Progressive Myositis Ossificans	350
CALDWELL, W. E., MOLOY, H. C. and D. ESOPO, D. A. A. Roentgenological Study of the Mechanism		BRISTOW, W R Acute and Chronic Sprains	351
	343	SMART SIR M The Pathology and Treatment of Sprains	351
Puerperium and Its Complications		Bossi, V Researches on the Method of Healing of	
SALVENI, A A Contribution to the Clinical Study and Therapy of Late Puerperal Hamorrhage	343	Experimental Lesions of Tendons KECHT, B Subacute Suppurative Osteomy clitis of	352
Warson, B P Practical Measures in the Preven-	343	the Atlas SALISACHS L. G. Contribution to the Study of Con	352
SERDUKOFF G The Modern Management of Puer-	-	gental Radio-Ulnar Synostosis	352
- ·	344	SCHAER, H. Patella Partita Wiles, P Flat Feet	353
SCHLINK, H H The Treatment of Surgical Injunes Following Childbuth	345	SCAGLIETTI, O A Clinicostatistical Study of the Cases of Congenital Club Foot Observed at the	353
Newborn		Rizzoli Orthopedic Institute in the Period from 1899 to 1933	224
TAYLOR, H. M. Prenatal Medication as a Possible		LAMY, L The Congenital Convex Valgus Foot	354 354
Etiological Factor of Deafness in the Newborn	301	Browve, D Talipes Equinovarus	353
GENITO-URINARY SURGERY		SANIORO D'EMIDIO, A Radium Therapy in Bone Metastases from Breast Carcinoma	379
Adrenal, Kidney, and Ureter		Surgery of the Roner Toleta Marches March	***
RAGNOTTI, E Considerations and Researches on the		Surgery of the Bones, Joints, Muscles, Tendons,	Etc
Pathological and the Experimental Production of "Dynamic Hydronephrosis"	346	BONNET and Du Bourguer Indications for Rachi- synthesis	356
Torre T. C. The Division of Co.	346	MASSART, R. Sacro-Ihac Surgery	356
PRATHER, G C A Method of Hæmostasis During	346	Bristow, W R Results of Operations on Painful Hips	350
OPPENHEIMER, G D Polycystic Disease of the Kid	346	HLET and Dr. FOURMESTRAUN The Treatment of Suppurative Arthritis of the Knee Exclusive of	33
COLSTON, J A. C Primary Tumor of the Ureter A New Method for Complete Nephro Ureter	5.74	war injuries	357
ectomy	347	Fractures and Dislocations	
LUCCHESE, G The Influence of the Suprarenals on the Formation of Bony Callus	349	HOUDARD L, and JUDET, J The Value of Modern Methods of Osteosynthesis by External Fixation	
SHUMACKER, H. B, JR, and FIROR, W M The Interrelationship of the Adrenal Cortex and the		in the Cases of Adults	35
Antenor Lobe of the Hypophysis	375	FEVRE, M and Dupuis, P The Treatment of Irreducible Congenital Dislocation of the Patella	357

357

# INTERNATIONAL ABSTRACT OF SURGERY

INTERNATION
SURGERY OF BLOOD AND LYMPH STREETS STREET IN COMMITTEE AND AND LYMPH STREETS STREETS IN COMMITTEE AND AND LYMPH STREETS STREETS IN COMMITTEE AND
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CONTILITY F. Migrating later accular Projection 50 CONTILIDE V. And T. CHARLET F. Results of Microscopy of Control V. And T. Charlet S. Control V. Charlet S. Charlet S. Control V. Charlet S. C
Accepts, N. P. Doctor of the America of Arteria.  139 149, and T. Frederick of Education and Timor of the Experiment of the Education of the Michael Education of the Education
A Akontrola Mary II C. and D Doro, D BERNARY, L G and READ Resident and D Doro, D Good D Doro, D D D DORO, D D D D D D D D D D D D D D D D D D D
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PLUE, P. and STEEL, I. ROUNCE Study of The REPORT TO THE REPORT OF THE R
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Pri vivo G. Merrina Jeop and Hyperplants  The Try H. H. D. The Operator Treatment of Hyperplants  The Try H. H. D. The Community of Recognition of the Colon in Hyperplants  The Try H. H. D. The Community of Hyperplants  The Try H. H. D. The Community of Hyperplants  The Try H. H. D. The Community of Hyperplants  The Try H. H. D. The Community of Hyperplants  The Try H. H. D. The Community of Hyperplants  The Try H. H. D. The Community of Hyperplants  The Try
Street R. H. and Lincx, H. E. Cources of Error.  old of Control Operatory Operatory and Description of the Control Operatory Ope
in Oral Challenger H. E. Roman, J. 190 (iv. The Restorm) Last H. and H. word L.
True Tr. H. I and Liner, H. E. Source of Properties of all Coloring trapping with Sources of Properties of the Coloring trapping with Sources of Properties of the Coloring trapping with Sources of Properties of P
The Third and ILLER, II E Sources of Error of the Source of Error

SECURATERS, II B J and Fison, W. M. The Interest timeshap of the Advend Cortex and the Auterna Lake of the Hyperhyses

## **BIBLIOGRAPHY**

Surgery of the Head and Neck		Genito-Urmary Surgery		
Head Eye Ear Nose and Sinuses Mouth Pharynx Neck.	376 376 377 377 378 378 378	Adrenal, Kidney, and Ureter Bladder, Urethra, and Penis Genital Organs Miscellaneous  Surgery of the Bones, Joints, Muscles, Tendons	391 391 392 392	
		Conditions of the Bones, Joints, Muscles, Tendons,		
Surgery of the Nervous System		Etc	392	
Brain and Its Coverings, Cranial Nerves Spinal Cord and Its Coverings Peripheral Nerves Sympathetic Nerves Miscellaneous	379 379 379 380 380	Surgery of the Bones, Joints, Muscles, Tendons, Etc Fractures and Dislocations	394 394	
	•	Surgery of the Blood and Lymph Systems		
Surgery of the Chest Chest Wall and Breast Trachea, Lungs, and Pleura Heart and Pencarduum Esophagus and Mediastinum Miscellaneous	380 380 381 381 381	Blood Vessels Blood, Transfusion Lymph Glands and Lymphatic Vessels Surgical Technique	395 396 396	
		Operative Surgery and Technique, Postoperative		
Surgery of the Abdomen Abdominal Wall and Peritoneum Gastro-Intestinal Tract Liver, Gali Bladder, Pancreas, and Spleen Miscellaneous	382 382 384 385	Treatment Antiseptic Surgery, Treatment of Wounds and Infections Anæsthesia Surgical Instruments and Apparatus	396 397 397 398	
Gynecology				
Uterus Adnexal and Periuterine Conditions External Genitalia Miscellaneous	385 386 387 387	Physicochemical Methods in Surgery Roentgenology Radium Miscellaneous	398 398 398	
Obstetrics				
Pregnancy and Its Complications Labor and Its Complications Puerperium and Its Complications Newborn Miscellaneous	388 389 390 390 391	Miscellaneous Chnical Entities—General Physiological Conditions General Bacterial, Protozoan, and Parasitic Infections Ductless Glands	399 400 400	

#### AUTHORS OF ARTICLES ABSTRACTED

Landst, M. 171 Legrand, M. 2 Larber, H. 196 Lhougeton, L. M. 196 Emera, C pt; America, A. N. 516 (wnesty 34 Ellin, R. W. B. 149 Flower, R. 126 Flower, C. A. 309 Essepe, L. A., 343 Auctair ) 57 Halado, M., 108 Hergh, G. S. 11 Leb, 170 Lenderschaper, P E 207 Binet, L., 27 Berkett, H. 6 sou Lay 5 po Fandas, F L 3 3 Fernal R C 373 Fisher, M 157 Farer W M 371 Larchese, U. 340 MacCallan, A. F. yes Bristi, H. 6 Joi. Halock, A 272 Block, E 250 Bolath, R 236 Rounet, C 256 Bossey, V 232 Bossey, V 31 Bosses, W 21 239 MacNesl, W J 375 MacNeal, W. J. 273
Marsa, W. J. Jr. 285
Marsan, R. J. Jr. 285
Mammin, R. 196
Mamchot, F. 196
Matchay, G. 273
Marsa, M. 223
McFetridge, L. M. phy
McLampkin, C. 254 I remain, ], 347 Frankravald, ] S. 208 Fredman, M 301 Bowler J P 190 Boyce F F 190 Brawser J R J 333 Brastow N R 33 37 Propes, R., 550 Gaether, C. F. J. 515 Gartani, L. H. 104 Genelacitae, C . 1 5 Managers, G and Bruss, E. H. 171 Cule, J. F., 139 Cortuck, E. 1994 Managare, G. 504 Menor, O. 137 Milhand, A. G. 130 Mindell, A. G. 131 Managare, G. M. 130 Managare, G. M. 130 Managare, J. 560 Verhol, H. 135 Managare, J. 560 Verhol, H. 135 Browne, D 155 Brawne, 11 335 Braux, II 3 4 Butenandt, A 110 Odden, J F, 347 Carbeel, W E 343 Carbe, A, 301 Carbeen, G & 349 Graser st Gondel, II ; Hagedoors, A you RAMOR A 11 SM Hart, D 3 5 Haworth, E M 3 liescock, C II 316 Carlmert, G. A. 345 Castrowno, R. 30 Castrowno, R. 30 Castrowno, R. 30 Castrowno, A. 345 Castrowno, A. 345 Capeland, M. 345 Capeland, M. 345 Capeland, M. 345 Carlaide, R. 350 Carlaide, R. 350 Dallaide, C. 348 Da. 48, A. 3 Davy L. 34 Heaty W. P. 130 Yerrain E 137 Ochmer 1 133 ffunch I 5 p48 Opporationer G D 346 Hoffmann, H 133 Homans, J 204 Handard, L 357 O'chemiment L 120 Ouecock, R. H. 305 Overholt, R. H. 3.5 Overholt, R. H. 3.5 Parlins, J. L. 3 Parlins, J. L. 3 Parlins, J. L. 3 Parlins, R. 30 Parlins, G. 330 Parlins, G. 330 Hoet, 117 Hock, H. E. 333 1vy, A. C. 13 Jackson, C. L. 2 6 Janeson, P. C. 203 Postation ( 130 Postation ( 2 ) Postation ( C 545 Practs, P, 307 Quantity, S. H. 354 Jambari de Besajeo, 1 350 John J 5 346 Jones, H 11 363 Jones, T 11 340 Davy L # Dawson, b K 1 De Fourmestrant, 19 Densen, R 5 5 D'Escreo, D A 343 Denceklu, F P 340 Dottmer, G M 207 mict., J. 357 Raban C B 16 Esgnotti, E. 146 kecht, B, 39 kuban, H, 345 Rassautedt, C. 324 Rassau, i 11 324 Lastrigues, F St a C Do Bourgaet, 3#4 Duck, t B 3 Raves, R II 120 kontros, k sol kontros, jo konom, il j May E R 348 Dopena, P 357 Dopena, P 357 Respect, M 147 Dyne, C G pco Larrates K 4 333

Reserver C 100 Read N , 107 Rosettree, L G 374 Robenieki, S., 302 Salanche, L. G. 10 Sampson, A. 141 Sampson, J. 176 Sampson Chamaton, A. 170 Scarbett 0 114 School H 151 Schlock H H 145 Sechebeys, L. 166 Section C un Serringham, L. L., 34 Serringham, L. L., 34 Shaw W. F. 335 Shepkar, S. R., 373 Soumerber, H. B. J. 373 Mee art, W H 111 Start, J. 97 Stabl, L. 97 Stabl, L. 97 Stampf, P 96 Summerch, I 32 T ylor H M 32 Thayren, T. E H 129 Tocasian, I M 95 Tocasian, I M 95 Total C 3 Trans Ran, G, 15<sup>5</sup> T 110, W McC 116 Urcarey I., 100 Valsetthi, K., 519 Villarmi, F. V. M 104 Waters, B F 343 Untern Rallmants b per Warmer B P 338 Wides, P. 311 Wittenbeck, 1 plo Mood C D and Hoods, R.C. Lecrogica, G 144

Renter F 300 Rachard, 1 350 Reserv P II 4 4

# INTERNATIONAL ABSTRACT OF SURGERY

**APRIL, 1935** 

# ABSTRACTS OF CURRENT LITERATURE

## SURGERY OF THE HEAD AND NECK

#### EYE

Dorrance, G. M., and Loudenslager, P. E. Physiological Considerations in the Treatment of Pulsating Exophthalmos Am J Ophth, 1934,

From ten cases of pulsating exophthalmos in which studies were made of the retrograde flow from the anastomoses of the external carotid artery down the external carotid, past the bifurcation, and into the internal carotid, the authors draw the following conclusions

r Following ligation of the common carotid artery the internal becomes a branch of the external and the volume flow in the internal is reduced about 50 per cent

2 Almost one half of the recurrent flow in the external carotid artery comes through the superior

thy rold artery

The authors believe that as a general rule it is wise to ligate the common carotid artery alone. This frequently results in cure If the symptoms persist or recur, the superior thyroid and occipital arteries should be ligated Later the external trunk may require ligation Successful results are more frequent if the following physiological facts are borne in

When the blood volume in the internal carotid artery is reduced slowly there is less likelihood of starting a back-flow from the artery distal to the fistula

2 Any volume of blood which is reaching the brain by this route is proportionately preserved

3 The existence in the bifurcation of the common carotid of a carotid sinus that regulates the circulation to the brain may be so influenced that the heart may be slowed and the blood pressure reduced, any abnormality of the cerebral blood supply being thereby accentuated. Removal of the stimulation to this sinus will result in an increase in the heart rate and blood pressure

Ligation of the internal carotid artery in the presence of an arteriovenous fistula in the cavernous

sinus is contra indicated because it is frequently followed by hemiplegia. It completely cuts off any blood which may be getting past the fistula and into the brain. It creates an area of low resistance at the site of the fistula, and may result in the draining of large quantities of blood from the cerebral channels with consequent cerebral complications. It creates an increased pressure within the carotid sinus, thereby lowering the blood pressure and the pulse

Ligation of the common carotid artery is relatively seldom followed by complications such as hemiplegia It reduces the blood flow in the internal caroud artery, aids collateral circulation in the brain, permits fractional ligation of the internal carotid, thereby reducing the flow through the fistula between the internal carotid artery and the cavernous sinus without stimulating a reverse flow from the distal segment, and reduces the pressure within the carotid sinus, thereby increasing the blood pressure and heart rate and preventing slow ing of the circulation in the cerebral areas

From a study of all phases the authors draw the

following conclusions

Routine pre operative compression of the carotid vessels and the use of fascial bands or rigid clamps such as those of Matas or Neff may contribute to the incidence of postoperative complications

2 Simultaneous ligation of the internal jugular vein is more apt to be detrimental than belpful

- 3 In the presence of mouth, nose, or throat infection, the operative wound in the neck should be drained
- 4 Anomalies of the circle of Willis are so rarely uncompensated that deficiency of collateral circulation because of them cannot explain all of the cerebral complications which follow ligation of the caroud vessels
- 5 Cerebral accidents following these ligations are due largely to sudden extreme reduction in the blood pressure resulting in stagnation of the blood stream in cerebral areas Lesue L McCox, M D

Jameson, P. C. The Use of Thyroxin in Optical INTERNATIONAL ABSTRACT OF SURGERI Parent, F. L. Die Lee et approxie in vipolient and application of a Local Agent and Local Agen

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Thylacon P Elicopical Diagnosis of Confuse

The conjunctive has a finited normal becomes fore, the only constant organizms being the carp. note, the only tunness and the staphysecocus after both of such are superposited in the presence of confunctivity there are advantage as of an expectation of any of a property of the confusion of the confusio hy the margers to 1 pet an almost home contain of the or the invitation to their an amount pure carrier or the latter is obtained by Thygraup principle technique. to dory determination of the came of an incurrent by east of the Gram and Comme states culture by one or the cream and comment water comments of the contraction of the contraction and charts for differentiation of the more consists conjunctival bacteria by culture and ancar

He states that jackshall conjunctivity is second ary to maction in the lackey and me. The pronose a most processe in the newton in the adult, removal of the sac or restoration of draining annu, removal or the sec or resourced to manage as secretary. The most common cames of the infertion are the diplocation permanent, hemophiles terum at the appearants possessor, passessor, in the state of stephenocon hemorytees.

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philic calls in the secretion as of diagnostic imporgrace Scribbath tom the other primit conference in the are of most value

Under the term "inclusion conjunctivitis," Thy geson groups the 2 non bacterial conjunctival diseases, inclusion blenorrha and swimming pool conjunctivitis, which are caused by a single virus. He suggests substituting the name "adult inclusion conjunctivitis" for the name "swimming pool conjunctivitis" as the swimming pool no longer plays a major part in the spread of the disease. The majority of cases now seen are the result of direct transfer from inclusion diseases of the genito-

It is the inclusion conjunctivitis occurring in adults which is most often confused with trachoma. The examination of expressed follicular contents after Giemsa staining is of diagnostic and. In trachoma the large mononuclear cells predominate, while in all forms of follicular conjunctivitis the small mononuclear cells are the most numerous. In the trachoma follicle the central portion may be expressed easily, whereas in follicular conjunctivitis the follicles are hard and must be torn out it toto.

Actively secreting, so called acute trachoma is of the following 3 types (1) chronic trachoma plus superimposed infections, in which inclusions and free bodies are rare, (2) subacute trachoma plus superimposed infection, in which inclusions and free bodies are more numerous, and (3) subacute trachoma unassociated with pathogenic bacteria, in which inclusions and free bodies are numerous A search for free bodies in chronic trachoma is not recommended as the diagnosis is aided by predominance of large mononuclear cells. The characteristics of inclusion bodies are discussed

In a series of 314 cases the etiological agent was identified in 91 per cent of the acute cases of conjunctivitis, 85 per cent of the subscute cases, and

46 per cent of the chronic cases

In acute conjunctivitis the diagnosis should always be made by the examination of a smear. In the treatment of gonorrheal ophthalmia and conjunctivitis due to the koch Weeks or influenza bacillus the author has found a 0.5 per cent silver nitrate ointment superior to the solution. For conjunctivitis due to the pneumococcus the application of a 1 per cent optochin is advised. Diphtheria antitovin and anti-streptococcus antitoxin, used locally and parenterally, are specific for these types of infection.

Four definite types of chronic conjunctivitis are recognized (1) infection by the diplobacillus of Morax, (2) infection by the staphylococcus pyogenes aureus, (3) conjunctivitis in which cosinophilic cells predominate, and (4) conjunctivitis in which the findings are negative. The first type responds to treatment with zinc sulphate ointment. The use of this ointment should be continued for a month after relief of the symptoms. In the second type of chronic conjunctivitis, treatment may be difficult. For this type the use of silver mitrate ointment and vaccine is suggested. The third type is an indication of vernal catarrh or simple conjunctival allergy. In the fourth type no

laboratory help is available. A slit-lamp examination should be made for superficial punctate keratus.

In cases of trachoma it is important to determine whether the symptoms are due to secondary infection or to the virus. When they are due to secondary infection, silver nitrate is indicated, whereas when they are due to the virus, copper sulphate should be used.

Some of the follicular cases, such as those due to physostigmine and atropin, bacterial toxins, or infections of unknown origin, are toxic. In children, follicular conjunctivitis is often caused by the diplococcus of Morix, and in susceptible persons it has been known to result from chronic infection by the staphylococcus pyogenes aureus

In an occasional case of conjunctival folliculosis with secondary infection relief is obtained without disappearance of the follicular hypertrophy. Another type of case presents a granular appearance of the lower lid with blepharitis which simulates folliculosis, but is in reality a papillary hypertrophy, the result of a lov grade bacterial infection. It is usually due to the diplococcus of Moray and responds to

treatment with zinc

In the discussion of this report, Verhoeff called attention to tuberculous, phlyctenular, Paringud. and herpetic conjunctivitis, squirrel plague, ophthalmia nodosa, conjunctivitis due to insect bites pemphigus, and rosacea conjunctivitis. He stated that the last-named is the most common form of chronic conjunctivitis. The diagnosis of swimmingpool conjunctivitis may be aided by the presence of enlargement of the pre auricular glands. Lachry mal conjunctivitis may be caused by streptothrix concretions in the canaliculi Diphtheritic conjunctivitis may be produced by the corenebacterium ulcerans, under which circumstances the antitoxin is useless. In pneumococcic infection such good results are obtained with boric acid and zinc sulphate that the use of optochin is of questionable EDWARD S PLATT, M D

Thygeson, P The Ethology of Inclusion Blenorrhican Am J Ophth, 1934, 17 1019

Many ophthalmologists have noted the presence of inclusion bodies in various types of conjunctivities. These bodies may or may not be associated with bacteria. Of seventy-seven cases of conjunctivities in the newborn which Thy geson studied, eleven were bacteriologically negative. Ordinary laboratory animals could not be infected with material from the eyes of the infants. Monket's proved difficult to infect. Baboons were less resistant.

The author concludes that inclusion blenorrhoan is a distinct chinical entity. It appears from five to nine days after birth and persists for from three months to a year. It is resistant to treatment. All cases of inclusion blenorrhoan and most cases of swimming-pool conjunctivities are due to a virus disease of the genito-urinary tract. Both conditions are distinct from trachoma. Virgil Wescott, M.D.

MacCallan, A. F : Trachessa in the British Golociel Empire; Its Relation to Bilindrem; The Exist of Monne of Relief; Means and Prophylaria. Bra J Opaca 1934, 6 6 5.

MacCallan discusses the Incidence of trachoma and acute conjunctivitis in various parts of the

British Empire.

In Canada there are few unamportant fori of these conditions among Hebrew and Eastern Enropean insulgrents. Among the lockers, who have increased by to per cent in the last ten years, the racidence of trachoma and acute conjunctivities is about o per cent Medical officers examining immigrants are given instructions for the recognition of trachoms. At the Indian residential schools a definite treatment procedure is followed ben the services of an eye specialist are not available. This includes the use of an antmentic evelution tablet. copper-extrate olutment tubes, individual eye droppers, and break solution

I Australia the disease is regarded rather lightly. but shows definite huntation to the outskips of established settlements. In the civilized communities its incidence is lower. In areas in which it occurs school children are examined frequently and offorts are made to educate the public with resard to it. In New Zeeland and South Africa, ceses of

trachoms are not very common

In the Indian Empire trachoms is very wide speed. It is reported to be universal in many of the provinces. The most important effort to combat it has been the controlled culutiment of trachomatous recruits in the ledien Army Investigations made in the cases of such recreits show that the disease is widespread among certain classes, partic ularly the Sikhs, of hom ell over no per cent are infected. The infection starts in childhood, and in the majority of cases ultimately reaches quiescent stage which causes bittle doubliby. In the past large numbers of trachometons men have been enlisted and ha e served as efficient soldiers. No evidence has been found to show that the chaesac m so infectious as to render the enlarment of these men danger to their fellows or to the British troops serving the them. Of 61 trachousatous recruits cointed during the past year of were ducharged as racurable. In many of the schools every hos below the age of twelve yours was found infected On the other hand, of 1,500 boys in school t Simle, on the heights of the lower Hussiaves, only per cent were infected. If th overcrowding and summitary conditions among the poorer classes conditions are ideal for the spread of trachoma because of irritation from flies, smoke and dust. In is carriest stage the disease to by ya neglected, and in ris more advanced stages treatment is often des continued by the patient when comparative relief has been obtained. Because of the huge excenditure of money which is accessary to combat chalers, plague, and malaria, it is impossible to devote the required funds to improve the ocula condition of the neocle

In Malta the disease was practically universal among the poorer chases at one time, but as the result of the treatment given ducing the last ten yours by government dispensaries and district nurses, orbithalmic conditions have been greatly inproved in our only tel cases of trachorse are reported.

I the Asiatic colonies trachoma is very common, but its exact incidence is uncertain. Treatment is provided whenever possible by traveling motor dapensaries and by clinics. In Palestine the percent ge of blind persons among the population is greater than to any other country in the norld. The estimated sumber of blind persons per too.ooo population in various countries is as follows. Palestuse. aus (blind in eye, 1968) Empt, 776 Latra, 176 Torice, 97 British India 50 Italy, 17 England, 75 France, 71 Germany 50 and Holland, 16 From a review of the various causes of blueleess in Palestine the conclusion is reached that these cames tackeds trackoms complicated by infection but not to complicated trackers of the first stage.

In the Empire Crown colonies and Protectors in

the suchdence of trachouse varies

In 8,713 cases of gonorthern treated in Tanganysia there were no cases of gonorchees) ophthaless in the American Impered Crown Colonics so record of trackoms as found in the government bealth reports. In British Gauss no trachous is reported, but hypopyon aleur kerntomalism is fit quent because of deficiencies in the thet. Also fre-

samp claus some bea scarbeid toger ora tosop Trachoms is prevalent in the Fin Islands and

occurs also in the Parist Islands group The survey indicates that is the absence of folmasting epidemics of our commett it is added to tractions the population may be generally injected with trachoma without any mastert demand for treatment or prophylams. While the acheme for prontyleum must be adapted to local conditions, a method which can be applied in all countries in treatment of the children is the schools and of their parents and relatives in hospitals and chaics

Trachous shows a stages. The first stage, which to characterized by his pushead follicles, and the second stage which is characterized by geletimes follocles or papillary development, are the references stages. The third stage, is which creatmention begues, as much less infectir e, and the fourth stage, that of excatrized trachouse, is not infective. I uncomplicated cases deterioration of visual acusty may result from infiltration of the corner manifested by pannes or by fraction produced by trickens entropeca causing corneal niceration

Ours of trackoma results from the laving des of excitness times in place of the trackonators granulation there. This may occur spontaneously or as the result of the daily application of countries over a long period of time. Our means of saducing the formation of cicatricial timer are no better today than thrity years ago

FOR AND S PLATE ND

Hagedoorn, A Adenocarcinoma of a Meibomian Gland 1rch Ophth, 1034, 12 850

Tumors of the methomian glands are either adeno mata or carcinomata. The tumor described by the author was formed in its more quiet areas of bands of sebaceous mother cells arranged on a basal mem brane, above which there was a successive metamorphosis into sebaceous cells. This is the picture However. that may be expected in idenomita most parts of the tumor showed a marked arregularity of arrangement and the presence of other types of cells closely related to pavement epithelium (prickle cells, keratohvalin containing cells, and a The Sudan III test few horn producing cells) showed fatty substances and the polarized light test revealed cholesterol in large amounts. Metastasis developed in the parotid region and the supra clavicular glands, and the patient died from the effects of the tumor

The frequency and malignancy of such tumors are difficult to estimate as the diagnosis may be easily missed. Only about sixty growths of this type have been described. The author warns against the impression gained from the literature that tumors of the meibomian glands are generally adenomate and therefore benign. He states that, according to the evidence, one half of them tend to become malignant.

In conclusion Hagedoorn says that in cases of tumor of the parotid or supraclavicular region the general surgeon and pathologist should bear in mind that the evelid may be or may have been the site of the original tumor. When suspicion arises staining of a frozen section with Sudan III is of considerable aid in the diagnosis.

TESLICI McCov M D

Castrovicjo, R Experimental Detachment of the Retina im J Ophth, 1934, 17 1112

The author reports a satisfactory method for the production of permanent retinal detachment in the eves of rabbits. The detachment has all the clinical characteristics of idiopathic retinal detachment in human beings and even after as long as four months no cure has been observed. An incision is made in the conjunctiva along the equator, the rectus muscle is severed, and an incision of 2 mm is made through the sclera, choroid, and retina into the vitreous from 0.5 to 0.6 c.cm of vitreous is then removed by suction by means of a blunt hypodermic needle, the retina is separated from the choroid with a spatula, and the vitreous is re injected between the sclera and choroid. William V. Minn., Jr. M.D.

#### EAR

Taylor, H M Prenatal Medication as a Possible Etiological Factor of Deafness in the Newborn Arch Ololaryngol, 1034, 20 790

The author is of the opinion that certain drugs have an affinity for the auditory nerve, and that idiosyncrasy for drugs may be an important factor

in nerve deafness. Chief among the drugs causing nerve deafness is quinine, which is frequently used during pregnancy. There is evidence that when certain drugs acting upon the auditory nerve are administered to the pregnant woman they pass readily through the placenta and may be toxic to the fetus, a possibility which the otologist has virtually ignored.

Prenatal medication as a possible etiological factor of dealness in the newborn is of sufficient importance to warrant cooperative research by the biochemist, histopathologist, obstetrician, and otologist

JAMES C. BRASWELL, M.D.

#### NOSE AND SINUSES

Watson-Williams, F Cancer of the Nasai Accessory Sinuses With Reports of Thirteen Cases Practitioner, 1934, 133 717

Malignant disease of the nasal sinuses is not very common. It occurs most frequently in elderly persons. Although a diagnosis is generally possible before dissemination has taken place, the results of

treatment are usually poor

The author reviews thirteen cases Three of his patients showed evidence of chronic sinusitis. One of the patients with chronic sinusitis and two others ascribed the onset of the condition to influenza. Although neither sinusitis nor influenza is rare, such histories may indicate that these conditions are of some etiological significance. It has been stated that malignant change in a "mucous" polypus is not infrequent.

The symptoms of cancer of the nasal accessory sinuses are determined by the situation rather than the histological character of the growth. When the ethmoid is involved the patient complains usually of nasal obstruction and a discharge. The ethmoid was involved in six of the cases reported. When only the antrum is affected, pain, swelling, or stiffness of the cheek is the initial symptom and nasal symptoms may be absent. When only the ethmoid is involved. the cheek is normal. Of the author's four cases in which both the ethmoid and the antrum were in volved, the cheek was swollen in two and the prlate in one In either localization of the disease, epiphora, proptosis, or diplopia may occur Glandular swelling is somewhat unusual in the early stages. Roentgenographic examination yields a characteristic picture in half of the cases and useful information in all Biopsy should be deferred until treatment is arranged

The author describes the technique of radium treatment. He emphasizes that disturbance of the tissues should be minimal. In his cases the total dose for a primary growth of average size has been from 2 5 to 4 mgm - hr given in an exposure of from seven to ten days. Special attention has been paid to the spacing and distribution of the needles and their fixation in place so that every part of the obviously affected tissue is exposed to the irradiation from at least two needles at a distance of not

more than 1 cm. When cervical glands have been obviously involved, the author has preferred irradiz tion to dissection.

Of ten patients traced from to to five years after treatment, nine were alive and free from JOHER E MARAT MD

#### MOUTH

De Cholnoky T Round-Call, Spindle Cell, and Assertation of the Lip. Am J.

In a review of the literature the a thor formet the in a terms of the interaction time a tree tectar to reports of 30 successful of the lip. Most of the records were incomplete. The majority of the seriomata occurred in persons of advanced years. but a occurred in a child Most of the subjects sere women. To the cases found in the literature the author adds 4 cases Inch were found among 429 Cases of mallgoant affections of the lip sees t the Stuyresant Square Hospital, New York.

The airconata most frequently reported were round cell and spindle cell sarround to but types angionarcomata and melanosarcomata here also angoarroman and presencearroman pays and been described. It could not be learned from the reports how many of the peoplesms originated on

The first case reported by De Cholooky was that women (senty one) cars of ge. The furner was of six months direction and located on the macocains neons border of the opper by It was electrated. Its

neous norder or tim upper up at was decreased an exact size in not stated. Microscopes section showed things from a not maked and colla of the jymphoid to pe invading the meach and continuing Transport of the many small blood versels. The

diagnous was round-cell surrouns

The second case as that of man fifty to your og eka apo peq entjeded en scap prin og tipe fece sord the tremty months previously. The hp had never the second management of 7 V-ray frestments over a period to second management of 1 V-ray frestments over a period to the second for the seco neuron in spar or 7 Array treatments over a person of three months. The tumor was a hard, lobulated or trace montes with the growth was a squamous celled epithelions Sections of the growth aboved oval or institute cells arranged in interlacing bundles invading the deeper triances h heats of epithelial cells era recognized Four months after operation deep currenomatous ross montes sitts operation the continuous com-mans developed in the parotid region. The patient ages personed t price scheriffe remova-we therefore are nevertily may administrate and our cinoma. He was still alive my months after the

The third case was that of a man sixty-to years old who sought treatment for a lesion of few wacks' duration which originated as and never booled. The leased was electated and presented an indurated pearly border Sections revealed interlacing bundles of fibrobiasts invading the lip. The diagnoses was spindle-cell surcoma

The fourth case as that of man arrive we years old who had a lip lesion of four weeks duration which began as "cold sore" and had falled to heal

The tumor was bluish red, over and I can in di-Ase timor was owned you, over any a car in on-ameter. The cells were of the throbbast type, oral and festioum, and irregularly intertaing. Scattered throughout the mass new small bundles of perro intrograms, the many value small behavior of persons. The disgnosis was neurogenic aerooms. The nones and magness was neurogenes actions. And linghensen s disease.

agranges a coverage. The lesion occurred t the vermilion border and, unlike most sectormite, uberrated

Friedman, M., and Rubenfeld, S. Hallgman No. LOUIS T BYARS, M D pleases of the Upper Respiratory Tract in the Louisian Am. J. Cancer 1914. 786.

T ascertain the incidence of malignant neoplasses of the upper respiratory passages in the young os the opper respensively passages to the thors reviewed 3-16 cases of neophenes of the respiratory passages which were treated in the Radiation Therapy Department of Believe Ho-

bird Ves Jose is the belief thou 1012 to 161 They found that 5 per cent of the tumors occurred in persons it early 5 cars of age or younger. Fifteen of the tumors developed between the first and find the tumors developed between the first and find years of M 17 between the sixth and fruth 12 years on me and officenth and any term of the carrenth and afficenth and any ber era

Of 3 I oral malignant tarsors, 3 per cent occurred is patients (westy ) extr of age or younger These included 5 sylindic cell surromats, 1 lymphosarroms, and 5 spatialiomata Oos of the patients with cer choose of the torse has also becomes with our

The epitheliomata did not occur in the sites is which they essaily occur in adulta-the sites of maximum initation—but in the lympho-spitletim covering the tomals and in pharyageal lymphoid

The 9 cases of ovel sealignancy are reported in detail

The a thors state that the displaces of stally nearly in the soung is frequently immed or delayed because the observer is maled by the patient's In a case of sarrooms of the cheek which was day nosed very early the condition remained costrolled two years after treatment by irradution Interstitud or topical unadiation is preferred in malignancy in the young become the deficits aim of chaldren prevents the use of large doses of external LOUIS T BYAM, MD

#### PHARYMY

Review y star The Results of the Treatment of Mailgramt Tumors of the Ear Ness, Theym, and Laryan in the Period from 194 to 1921 (Deber die Ergebnese der Bekendung bessunge Tumorea des Chiros, der Aase, des Rechaus, and des Kehlkopien am den Jahren #24- 934) Lapos, Descriation

In the period from pay to 33, 800 cases of malignant tumor were treated in the Eas, Nose, and Throat Chale of the University of Lepzig. The results were not encouraging. Only 9 (4 47 per cent) of the patients remained free from recurrences and symptoms after four years and only 41 (20 39 per cent) remained free from recurrences and symptoms for from one to four years. Twelve have developed recurrences and metastases, and the others are dead Of those who died, only a few were benefited for any considerable period. The majority were only slightly or not at all affected by the treatment. In most of them the tumor continued to grow or metastases were formed. Some of them died as the result of the treatment or from complications. A few of those who died received no treatment.

The best results were obtained by thorough operation performed early Except in a few isolated cases, roentgen irradiation, whether in the form of deep irradiation with large and supplementary doses or with average doses given over a longer period of time, and whether given alone or as postoperative treatment, was of no particular value Neither did radium treatment nor any combination of treatments prove of much benefit In all of 13 cases in which the Coutard treatment was used it was followed by breaking down of the tumor One patient subjected to this treatment was free from recurrence and symptoms for a year, but the others developed recurrences or metastases The metastases could not be influenced The Coutard irradiation caused no local injuries, and in only I case was its interruption necessary because of the occurrence of a too severe general reaction

Metastases developed in 83 of the 200 cases, in all of the cases of tonsillar tumors, and in about 50 per cent of those of epipharyngeal, hypopharyngeal, and laryngeal tumors and tumors at the base of the tongue

Attempts to treat metastases by extirpation or

irradiation had no effect

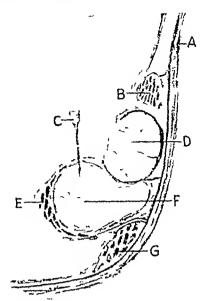
On histological examination, 138 of the tumors were found to be carcinomata, 35, sarcomata, and 21, other forms In 7 cases section was not done All of the tumors of the vocal cords and of the external nose and ear and the majority of those of the larynx, hypopharynx, ethmoid, and upper jaw were carcinomata, whereas the majority of the tumors of the epipharynx and tonsils were sarcomata

Among the tumors of the nasal sinuses, the numbers of carcinomata and sarcomata were about equal (Gerlach.) Jacob E Klein, M D

Wood, G B The Peritonsillar Spaces An Anatomical Study Arch Otolaryngol, 1934, 20 837

The ease with which the large majority of tonsils can be displaced from their normal position is of great importance in the technique of tonsillectomy. With the dislocation there must occur a disturbance of the normal anatomical relations. The author attempted to discover the nature of the anatomical disturbance.

He found that the tonsil was readily separated from the superior constrictor muscle by a gelatin



The needle, C, inserted just under the mucous membrane of the posterior pillar. The gelatin mass, F, occupies the posterior pillar, comes in contact with the posterior surface of the tonsil, D, but does not spread into the tonsillar fossa or posteriorly into the lateral wall of the pharymx A indicates the superior constrictor muscle, B, the palatoglossus muscle, E, the palatopharyngeus muscle, and G, the salpingopharyngeus muscle.

mass injected experimentally into the tonsillar fossa. This seemed to prove that there are no firm attachments between the superior constrictor muscle and the tonsillar capsule and that when the tonsil is dislocated toward the midline the space of the perionsillar areolar tissue is filled in by approximation of the anterior and posterior pillars. However, there was evidence of a firm attachment between the sheath of the palatopharvingeus muscle and the posterior surface of the tonsillar capsule.

Certain barriers to the extension of the injected material were found. Practically all of them run in a longitudinal direction, following more or less closely the arrangement of the faucial musculature. The solution of gelatin injected readily traveled upward and downward, but was definitely limited in its

forward and backward extension

The spread of suppurative conditions within the superior constrictor muscle seems to occur in the same planes as those followed by the gelatin mass in the anatomical injections. When a suppurative process begins in the tonsillar fossa—peritonsillar abscess—it extends upward into the palate, but does not invade the posterior pillar or the posterior pharyngeal wall. However, if the infection starts in the posterior pillar—peritonsillar abscess in the posterior position—the tonsillar fossa and the lateral pharyngeal wall are not involved.

SAMUEL KAHN, M D

Coctach, E. Correct and Incorrect Use of Iodine in Then, b. Cornect and ancounter these of assume in the Treatment of Gotter Am J Surg 234.

Sample colloid gatter the inactive type of parenformation gotter commonly develops when the carmaton spacer commonly services when the in the body is faulty Sample colloid or actic administration of minut amounts of folion ocean automateration of thyroid surrect This is the only type of gotter in which the thera-peutic administration of lodine as indicated. The protonged administration of lodine may occasionally stimulate hyperplana of the thyroid gland. The aumunus nyjerjaana (a cun seyrona general linductimmate administration of sodine may activate a non toxic going and executate the symptoms of a non-tone grains and consequence on symptoms to force gather. The administration of lodine in preg-nancy is indicated only in the presence of inactivity

the in reac.

The dministration of lodine does not prevent the growth and development of tree admoons and has no place in the medical treatment of that condition to peace in the membra incomposity activated and the symptoms of torce advances to extended by residence. The acutely torce adenomatous gover is scene: The acutery tour acrossmatous gover to often teverably influenced by lodge, particularly when the metabolic rate is high. Admorante assowhen the metabouse true we argue commences assur-ciated with leaser degrees of hyperthyrosifan may shoe relatively little improvement and an appre sain icacovery more emprovement and an appare

When looking is administrated to a patient with Graves disease who has not been given sodine orange marked curved temismon to the comise of the charace is produced. Operation should be per or the disease is promised. Operation second to per-formed during the reminister. If resection is not done during the remained, related often occurs and a coordinate of nucoutalying hyberthymerism may accura and a result. The gland becomes relatively insensitive to the further administration of sodine Iodine has the integration controling postoperative hyper actio emect in controlling postuperative apper thyroidism. A hyperthyroid cross occurring spou tarrously in the course of sovere Graves ducase may be effectively controlled by large amounts of sodine es enteriors community or safes anomals or sames result of incorrect administered sorine, the farther administration of sonne, even in large

# Birkett H. S. Liposes of the Larynx Intrinsic in

Drigin. J Laryaged & Ont. 034 49 735

Burkett reports case of lipoms of the lary mx of Direct reports Case of apostas of the sity ax of th intrinsic origin in the many many many many many many many fracheutomy performed under general angulacia. Opening of the laryax as nnecessary because, on retraction of the subcutasoous tiesue the turnor in the thyrobycodes membrane The impor was an one convious with case being free from trachments

It was proved to be a lipons by microscopic crassit was proven to us a upone by ancroscope cara-faction. The case reported is applemented by illus-

a conclusion Birkett says that inports of the haryax of initiatic origin is quite rare. He was able to find only four cases reported in the literature

Carlind, L. H. Carcinoma of the Laynz. Car rhand, L. H. Carresponns or the for its & Pent Med 914, 4 and

The Contard method of treeting mahanast And Coulairy against or tracing anagurar famous of the pharynx and larynx by madashen is besced on the fact that cells in mations are much more radiosemative than cells in reating stage. When the time of admirestration of state of active gree dose of irradiation is prolonged a greater n more of tumor cells in state of mioses are damaged than when the dose is p on at once or OFTER ABOUT DESIGN SUICE DOFTER CHIEF PROVER FROM the effects of irradiation more questly than taken cells, the themes tolerate. large dose given over a long period of time much better than the same dose

concentrated within about period of time The radioscalityity of children tamors design labes with the increase in the differentiation and the artistished of the cells. The control of table constitution of the cent the error of most established of tempts of the pourput and larger had to be as follows, small-cell lymphosarromata. and to se as insures, annually improved the manufacture and manufactures. It is the manufacture and insure and stanger on commenced and peri-forming differentisted epidermold epitheliomata

in the very case of carmoons of the layer receiving protracted milotherapy the skin dance the third and fourth and develops wearles carolistico and the entire thickness of the spicerum cuouscoo ann use cutto tincasco o tos quantitativo over the treated area perit of. However, the corine and subcathacous theore are not destroyed and within another two seks complete regeneration Occurs. The fact that no other thenes are dissolved or occopied differentiates this beings, epidemilia from tree foreign necrous Concomitant with the try in Coulard treats the patient units married or mucositis involving the

unicontra quarkona II the timor has quarboared by that time and if its hisological pressure suggests that t u of the amplitude type, the treat ment is discontinued. If the tumor is of the highly differentiated tipe, the treatment may be conuniversities upper the treatment and expenses of the radiotherapus. The chief danger of moder to changes in the effect on connectian removes which provents or delays complete being Er reme overdosage is followed by secrous of bone and cartilago

ther presents mine cases treated by modified Coulard technique. Of four patients in moderat lemma, three are living with the condition clinically arrested and one died of broackspacemone the polescent and one unit of interesting the rise mone the polescent above as shortly after the treatment as began. One patient treatment as postoperative recurrence classified as moderate a

clinically well. Of three patients treated for an advanced postoperative recurrence, all are dead One of these showed no improvement after the treatment, but two showed definite and remarkable improvement. One patient with an advanced lesion who was not operated upon has shown no change since the irradiation

A comparison of the results of irradiation and surgical treatment in several recently reported series of cases reveals that the best radiological results are exactly twice as good as the best surgical results at the end of four years, while the mortality of surgery is considerably greater than that of irradiation Final judgment must, of course, be held in abeyance until the follow-up observations have been made over a much longer period of time

The author's conclusions are as follows

I Many cases of carcinoma of the larynx can apparently be cured by adequate, carefully administered roentgen therapy

2 As none of the nine patients whose cases are reviewed has been observed for a period of five years, the number of clinical cures cannot be stated. However four patients are clinically well at the present time

3 There was no mortality directly attributable to the roentgen therapy in the reviewed series of cases. No late necrosis of cartilage or bone, and no pharvingeal obstructions developed following the irradiation. Nevertheless, such complications may be expected to arise occasionally in a sufficiently large series of cases.

4 Roentgen therapy avoids destruction of the voice and in the cases reviewed it resulted in no dis

figurement of the neck.

5 The choice of therapeutic attack in cancer of the larynx appears to be a joint problem for the radiologist and surgeon. The indications for one or the other or both procedures vary in different cases

ARTHUR S W TOUROFF, M D

# SURGERY OF THE NERVOUS SYSTEM

# REALE AND ITS COVERINOS; CRANIAL

Lorraquia, C., Poo, M. E., and Henry L. 1 Treat man of Applyses of the Centeral Lift in Treat matter excelents and Table Vacables Complex tions. As Reference of Landson of Complex metre actuerns and their vacciner computes to those by disberteneous ? sections of Carbon Dimited (Tratemento de la safrie de la civili Division (Instantanto de la maria de la crisca contrata de la accidentes transferent y sen ricon. ceremin to an accurate branching processor y accurate popular popular

The a thorn present a preliminary report of caperiments in which does tendered montton by experiments to some deep resource montees by the on the head were treated by subertaneous have on the state and tracto by some sacrons. The injections of carbon dioxide. The injections acres logious ed ph imbioastiment of trabitation and a tabig Left in of consciousness impose the training and to indicate on imposition and a indicate to indicate the training and to indicate the training and training an ter to or construction mixes the results of the service, such only contractly improvement occurring and death was merely delayed. As much as 400 mass, former of colors of cubes per following to body selfect of colors of cubes and the colors of cubes and the cube of cubes and the cube of cubes e for or caroon current per anageran or only record poors libout cyanosis

From the results the authors conclude that in concession there is a stimulation of the sympa their with Asacconstitution after bacques carepal their was vancountered was produce circus, schemia and partial supprise of the never there Certain district infiliate the transmitted, thus returns the primary condition of concuston and its accompanying respectory distributes and imits accompanying respiratory disturbances and an the tablis (oth content tentile control creations on the tablis of tablis of the tablis of tab the teatraction control tentral control caronious. tifer and corner perspectas resembles access on the capillanes. The latter accounts for the relief of the cerebral applying. The injection of carbon the centural aspen and the injection of carbon control of carbon c contain only accretion the managers respiratory thythm, providing a single transmit actions and takens become a many transcript expenses

time the street of the street trained by the modulations communication of carbon deards. The first rest case of fracture at the base of the skill complexited by meninged the same of the Mann component of neuropean horsestage. The patient recovered physically but not neuropean and neuropean distribution of multiple city. not mentally and later diagnosis of multiple cere bind formers are made. The second case was one of factors with interactional factors with interactional near transmission provided a light and attended and other 10/2002 Although each memoringer—and other injusted Attraction occurs injection produced temporary improvement, the injection produced temporary improvement, the stend case, a case of parient energy among the factorial according a short and concession does to extract according a angle loyerson resulted in immediat and continued (m) rovement

The authors one the carbodental sparklet with non-there on the connection invented by Zorradufin which affaches to hypodernic needs The apparatus and is use are described with the aid of

mentralism. The present, velocity and quantity of the gas crashes determined and controlled The the time gas that we interesting and transformed the code in from 3-400 to 3 600 C cm injected over \$ period of from lerty to early attention or a sherper contribute port to the spect of sport to c cm and ander a pressure of 100 h about on access to C. C. and states a promote on two to constitute of the promote of the party constitute. The effect of the injection have a surface of the injection of the inje the state of the s the transment is battleightly asymptotic to the past t how for incoment is particularly variable in con-constitution, come from framewise or tomice, saint mechanic come from framente or vaccior comes, poriectic attacks of vaccor kinds, and only according to the contraction of the contra and other sequely of vascular states

Illured V A New Technique for the Treatment herel, F. A. New Trebridges for the Tripe consense of Treatments Block of the Ferrica Consense of the Contribute (Texas Indiana) of the Contri M E. Moser, M D

The author potes that transmatte block of the The author notes that transating over or one restricted is proceedly coordinated an indication for operation. The mortality of this type of know is a fact that the contract of the contract o high, as is shown by the mattern of ratios are high, as is above by the statistics of princes are forces, in the action, opening to high morning to make at many both the force of the first statistics of the first statisti a dor partly to the fact that the surgical sections med parab perce parsed too success and to surfaces sursection to the part of the surfaces surfaces and the surfaces are surfaces and the surfaces and the surfaces and the surfaces are surfaces and the surfaces and the surfaces and the surfaces are surfaces and the surfaces and the surfaces are surfaces and the surfaces and the surfaces are surfaces are surfaces and the surfaces are surfaces are surfaces are surfaces and the surf coordinations atthough sufficient latter to the physiopathological aspects of the lesion

In traces of the brain blocking of the route of An Creation of the Water beauting to the American Communication between the Tradition and the cutta harticopat abacca unto occur arry conscional experimental spaces may occur mus common and theoretics of interpretary with the circulation and manypool of the certainspiral fund. The operation details in the a thor to reheve this condition of venticaler block is designed to establish block is designed to establish released in recipient of the cerebrangual fluid provides much started a slow the contraction and markets are a sort or the mortal network of the second state of the second secon po safe' crossed so scrooper, sumbroos and tental mission and tental m ing the symptoms of restrictly symptoms and the for the symptoms of restrictly short, was shipted for see in chical case. In clinical case, local case the are in cancer cases in current cases, are cases, seems formed with norocats at most The cases the section of 3.5 cm above that cause 4.00 manual is returned to the bone is exposed and tripfinal by the mend feelington A special trocer y on long of the water reconston a special trocket has been and from in themselver in most with styles inper the 5 and to despect it and with experiment the thorocontral perior At to a pean summer to increase the constitution of the extremity which is to rest against the crimely which is to rest against the crimely con cathering water is to rest against the creaming the front has two lateral wants parallel with the stylet in lattroduced.

through a very small incision in the meninges so that it is perpendicular to the cerebral cortex When introduced its full length up to the lateral wings, it reaches the ventricular cavity. The stylet is then slowly withdrawn so that the cerebrospinal fluid escapes drop by drop When no more fluid escapes the stylet is completely withdrawn and three silk threads are placed in the lumen of the trocar and pushed in gently with the stylet. It is not necessary for these threads to be in the ventricular cavity The trocar is fixed in place by means of its lateral wings. The ends of the silk threads are fixed in the cellular tissue of the sternomastoid region The trocar and the silk threads are left in situ until the symptoms of intracranial hypertension and commotio cerebri disappear—from the ninth to the twenty-fourth day in the author's cases No symptoms of intolerance to the presence of the trocar have developed in any case. This operation has been done in eleven cases Two of the patients died within twenty-four hours, but as autopsy showed severe cerebral lesions and extensive hamorrhages in both of them their deaths cannot be attributed to the operation. The nine other patients made an excellent recovery without complications The first patient was operated on in April, 1931, and has recently reported himself entirely The other patients have not been traced since their discharge from the hospital, but were under observation for sixty days and showed no mental or neurological symptoms when they were discharged The eleven cases are reported in detail ALICE M MEYERS

Stier, E The Importance of Investigation of the Equilibrium Apparatus for the Judgment of Old Head Injuries (Die Bedeutung der Untersuchung des Gleichgewichtsapparates fuer die Begutachtung alter Kopfverletzungen) Monatsschr f Unfallheilk, 1934, 41 385

After a general discussion of the important points of view in judging skull injuries and a detailed discussion of the importance of vestibular disturbances in such injuries, the author reports his own investigations

Of thirty-seven clearly proved cases of fracture of the vault of the cranium, he found an appreciable difference in the excitability of the vestibular nerve in only one, and in this case it was due to a central injury Among twenty-nine basal fractures in the region of the temporal bone, there were five fractures of the bony capsule of the labyrinth with complete destruction of the eighth cranial nerve In four cases the vertigo which at first was very severe was so greatly alleviated by central compensation after a few years that the patients regained almost full working capacity In all of the other cases the injury to the vestibular nerve was much less severe and the tendency toward improvement so great that in one-third of the cases no limitation of working capacity was apparent after one or two years According to these findings, the majority of patients

complaining of vertigo after basal fractures receive accident compensation much too long

Of seventy-three cases of concussion of the brain. a complaint of vertigo was made in only thirty-seven It was possible to demonstrate a unilateral disturbance objectively in only ten of these thirty-seven cases In four of the ten there was a peripheral injury with a suspected basal fracture, and in the remaining six there were central disturbances which probably had their origin in small hæmorrhages Of eight cases of unilateral central injury to the vestibular nerve after head trauma, only five presented the picture of concussion of the brain. It therefore seems apparent that a simple concussion of the brain usually does not produce injury to the vestibular nerve and that, on the other hand, circumscribed hæmorrhages in the brain may give rise to vestibular nerve disturbances in the absence of all other symptoms

(L DUSCHL) FLORENCE ANNAN CARPENTER.

Rohde, W Primary Melanotic Tumors of the Central Nervous System and Its Membranes (Ueber primaere melanotische Tumoren des Zentralnervensystems und seiner Huellen) 1934 Hamburg, Dissertation

The author reports the case of a fifty-jear-old woman who had harry pigmented nævi on the face and extremities (on the latter as large as the palm of the hand) and came to operation with the symptoms of brain tumor. The tumor was not found on trephination and the patient died two days after the operation. Autopsy revealed a large melanotic tumor in the left temporal lobe.

According to the findings of histological examination, the tumor had its origin in the inner leaf of the pia mater. The cells contained pigment and were arranged in groups, packets, and thick strands External to the tumor, cells filled with pigment were found on the inner leaf of the pia in addition to normal endothelium-like cells. The tumor had displaced the brain tissue, but had not infiltrated it. None of the sections of skin nævi examined showed signs of malignancy. The author cites about thirty similar cases from the literature. The melanotic pial tumor was regarded, not as a metastasis, but as a primary tumor developing from the meninges.

Rohde next discusses the various theories of origin of the pigment. According to some the pigment is derived exclusively from the outer germinal layer, while according to others it originates also from the endothelium arising from the mesenchyme (Lehmann) Florence Annan Carpenter.

Puech, P, and Stuhl, L Roentgen Study of Tumors of the Hypophysis and the Hypophyseal Region (Contribution à l'étude radiologique des tumeurs de l'hypophyse et de la région hypophysaire) Presse méd, Par, 1934, No 92, 1849

Roentgen examination is of great importance in the localization of tumors in and near the hypophysis. In some cases it may abow the instolerated nature of the tumor. It serves also to differentists is transitar tumors from certain tumors: t a declaror —tumors of the posterior fosts, for example—which affect the hypophysis and its natures and simulate affect the hypophysis and its natures and simulate

tumors of the hypophysis chalcally

The roentgenogram of true tamors of the hypophysic-edenometa and craniopharyagiomata-is quite characteristic la cases of chromophobe adenouse the sells is enlarged in all its diameters and its walls re trophied The enlargement occurs particularly in the anteroposterior direction. The floor is horizontal, and the anterior and posterior clined processes are small, tapered, and less practice than usual. In cases of acadophile advocane the enlargement occurs in the vertical direction and is accompanied by acromeralic changes. The walls are thick and the chancel processes are long and hypertrophied although their lower mirraces are eroded. The tabercle of the sells is abnormally protruding forming a beak between the two optic nerves. This characteristic beak may interfere with surgical removal of the adenous

Craniopheryagomets are generally expressible but in some cases develop in the soils tracif. Occasionally they are ratrilypophysical. They cruse not only changes in the soils, which vary with their technicalion, but also catifications, which are generally the soils.

crally suprescilar

Jetraellat unoco, which include augustillat manaporosis of the tuberts of the alleg foundation manaporosis of the tuberts of the chiam and optic acree, laterositar metarino, praellat efficiency memaposasta, and bose hermalionates portice less characteristic periodic hermalionates portice less characteristic periodic hermalionates portice less characteristic periodic better some signs which, in conjunction with the disposition of the disposition of the disposition of the disposition in the disposition of the disposition in the disposition of the disposition o

Kornbi m. K. and Osmand, L. H. Deformation of the Sella Turcics by T. more in the Pituitary Fossa. Jun Juny 935 20

The authors review seventy four cases of tumor of the pituitary form is which careful roestganolog ical examination as made and the findings were renfied at either operation or a topay. They state that in rocatgenography of the pitintary forms t in about tely essential to obtain it least one true interal roentgenogram in which bilateral tructures are superimposed. For this purpose it is best to have the patient niting or I sag prope and to use special Bucky disphraem adapted for these positions A saturbactory rect re cannot be obtained by having the return turn his head onto the plate as a boo this a done distortion mustly results. If stereoscopic films are deared, they may be obtained by moving the tube the full length of the stereoscopic skill for a and or backward In the average adult shall the neighborn foom us 8 mm us depth and mm in the ateroposterior diameter. The highest normal for these measurements is usin and min

The cardinal changes occurring in dedormations of the selfs introls, regardines of the location of the tumor, sen. (i) atrophs of the donsen selfs: (i) emisor of the principle plane, (i) he increase in the sine of the principle plane, (i) he increase in the sine of the foom (sverage, 32 mm in the anteroposaterior dismeter and 16 mm in depth). There is always definite eridence of contino of the surfree votaces of the dorsen selfs. This surfree becomes thinner and frequently appears elegated becomes thinner and frequently appears elegated to the surfree votace that the surfree votace is the surfree votace that the surfree votace is the surfree votace that the surfree votace is the surfree votace that the dispersion of interselline through two properties of the dispersion of interselline through two properties of the cases studied, there was default V-ray ordinear of erosion in over appear can

Eviden of the floor is an almost favoriable accomparament of intracellar tensors and usually is quite marked. It is manifested charfly by definite ealingness of the pilottary form. Every is enlargement, the floor may present normal appearance. It may appear to be made up of multiple lines which came definitly is determining the true level. It may leve the appearance of double bottom, or it may seen I have disappeared completely. Under the latter outfillows the tumor may appear to be supported

to the spheroidal store

There is mustly some change in the appearance of the chaold processes, and the tehermion selec-

commonly above a polated deformuty

commonly perch as positive dustrates, were types more ables on a printing times do the complete themselves of other Very manifestations of an interestable separation of the version types of deformilies of its selfs turners produced by intracersial necessary. The deformily remaining from an intraediat remore is the out-rose that is he say: y pathogenomic I is majority of cases it is sufficiently characteristic to establish the desposas of pitrustry turner. While the complete of the product of the production of the product of t

Ione Wilmin Prior, M.D.

Balado, M. and Pardal, R. Sergical Treatment of Hypophysical and Parlinguish seal Tensors (Fatassente quaritipos de los timores hipótesiane y persisposésanes). And arguel de servici. 234. 7

The authors report three apprairies seeding possets, four pinosats of the technism, as cramo-plastryagomatia, rongenital protouption of the infradibilities cavity (number to the conditions to be lower animals) is the berelos in the although the protoup protoup animals in the berelos in the substitution of the protoup of

one eve with biratisess of the other.

Positive rocatigusological signs are found in the selfs turnois in 80 per cent of cases of hypophysical turnor. I cases of pershypophysical turnor es the

other hand, the sella is negative. The cerebrospinal fluid is always normal as regards both protein

and cells

Of the cases reviewed, a typical hypophyseal operation with the formation of a frontotemporal flap was done in twenty-two, a right-sided decompression in five, and section of the corpus callosum with ventricular exploration in three In fifteen, no operation was performed. In all of the cases in which an operation was done iodoventriculography was positive and of great aid in the localization of the tumor In the cases of hypophyseal tumor there were twenty-one operations with four deaths three of the cases of adenoma the large size of the tumor explained the immediate postoperative death The one patient who was treated for sarcoma is hving three years after the operation. In the cases of meningioma there were no deaths. One of the three patients operated upon for ghoma of the optic tract died two months after the operation patients operated upon elsewhere by the intranasal route were operated upon a second time

The authors have used deep radiotherapy extensively and consider it partly responsible for the

excellent postoperative results

The tumors of Rathke's pouch constitute a special problem. The authors cases of such tumors came for treatment after the stage of blindness had been reached, and five of the six were fatal. The first intervention, after the position of the tumor is determined by iodoventriculography, should be a simple right-sided decompression. If this is insufficient it is necessary to section the corpus callosum and treat the tumor directly

Of the authors' cases of tumor which were not operated upon, four were diagnosed for the first time at autopsy, two terminated in death very rapidly without treatment, and in the others the narrowing of the visual fields and the amblyopia increased progressively in spite of radiotherapy and intranasal procedures

M. C. Morse, M. D.

Elsberg, C A, and Dyke, C G Meningiomata
Attached to the Mesial Part of the Sphenoid
Ridge with the Syndrome of Unilateral Optic
Atrophy, a Defect in the Visual Field of the
Same Eye, and Changes in the Sella Turcica and
in the Shape of the Interpeduncular Cistern
After Encephalography 1rch Ophili, 1934,12 644

The authors describe a characteristic syndrome of small meningeal growths arising from the mesial part of the sphenoid ridge. For a considerable period such growths produce disturbances due solely to pressure on the nerve near the optic foramen.

The syndrome of primary optic atrophy of the optic nerve with bitemporal defects of the visual fields and progressive diminution of vision is characteristic of tumors which compress the optic chiasm and nerves and is often the first and for a long time, the only, clinical evidence of a midline growth under the frontal lobes of the brain. The combination of primary atrophy of the optic nerve bitemporal

defects in the visual fields and changes in the sella turcica was formerly believed to be characteristic only of tumors of the hypophysis. It is now known that the chiasmal syndrome may be produced by cysts or solid growths derived from the bucconcural pouch or infundibular stalk, by primary gliomata of the optic chiasm, by localized inflammatory processes in the leptomeninges, and by midline meningiomata attached to the basilar dura of the anterior or middle cranial fossa.

In 1027 Holmes and Sargent reported a series of cases of suprasellar meningioma in most of which operation was performed after the growth had become large Early recognition in the stage when visual disturbances are the only signs was due to The sella turcica often shows changes Cushing without the appearance characteristic of intrasellar growths As the result of the report of Cushing and Eisenhardt, the combination of primary atrophy of the optic nerve and bitemporal defects of the visual fields with slight changes in the sella turcica but without any other symptoms of intracranial tumor became recognized as a syndrome produced by slowly growing meningiomata in the neighborhood of the optic chiasm

Meningiomata arising from the dura of the upper surface of the lesser sphenoid wing and those attached to the lateral part of the sphenoid ridge do not press on the chiasm until they are large. After they attain a considerable size they may cause bilateral papillocdema or primary atrophy or primary atrophy in one eye and papillocdema in the other Concentric contraction of the fields or homonymous hemianopia may occur. According to the authors' experience, the so-called Kennedy syndrome is infrequent and occurs only in cases of large growths.

in or under one frontal lobe

An important contribution to our knowledge of the life history of these growths was the discovery that the neoplasms arise and become attached more frequently at certain sites than at others Among the most common sites of their dural attachment are (r) the tuberculum sellæ, (2) the olfactory groove and cribriform plate, (3) the roof of the orbit, (4) the superior surface of the lesser wing of the sphenoid, (5) the outer part of the sphenoid ridge, and (6) the messal part of the sphenoid ridge In the roof of the orbit, on the superior surface of the lesser wing of the sphenoid, and in the outer part of the sphenoid ridge small meningiomata do not come into contact with structures having a specialized function and therefore do not cause symptoms early Meningiomata derived from the dura of the tuberculum sellæ produce visual disturbances early Small growths attached to the dura of the olfactory groove cause unilateral disturbances of smell very More delicate olfactory tests would allow their earlier diagnosis Growths derived from the dura of the messal part of the sphenoid ridge can be identified early by study of the visual field and the demonstration of changes in the basal cisterns by encephalography

The authors report foot cases in which there were time actions terms to come to more come were one eye that to a growth attached to the mental part of one absenced today. In three of these cares there one shall not a known streetien in the insert hard ser so disturbation of any other craftle across ware no consultances or any other trained nerves, but he cost there was complete amounts due to long Standing disease of the spheroid and marillary resource. In all of the cases characteristic charges in

to space of the interheques par extension consists to realed by encephalography cased by enceptioning apply
The defects in the visual field were due to pressure

A for execute in the vision pers were one to pressure on the perse easy the optic formers which affected most the lower factor of the acree A similar clinical picture may be produced by A sinus cursus because may be produced by meningiously and other benign growth arising from the sheath of the optic nerve a thin the orbital coarly and by socialism of the caremora part of the internal curatid entery The former came to the internal caronn entery too notiner came no changes in the sells furcica or becommittee of the changes in the sense curves are construction or the

datal caterns. In case of another there is meanly for the orthogone abducers, and ophishizing different of the trifferent abducers, and continue to the trifferent press Chicken in the angle of the case is often chicken to the case of the case is often chicken. ophibatinic dirinor of the information was Calci-fication in the wall of the sac is often wishle in contrangation of the skull. The embors report then be addressed on the second supported to a process to the property of the property of the process to the pr the presence or tumor secureus attacks of turner Recurrent attacks of at the circum and samulas or the vyernames leader of the circumous slame Among strict stop of the extension same among the particular conditions which may cause the conditions which may cause the conditions and field officers are early channel arachaedita (abic) however le estably printerall and currenteness. In a case of manaly distinct and crames meast in a case or the latter condition seen by the setting the remaindered the characteristic distinct and characteristic distinct disti commenced and spoked the interhearing contraction of the interhearing and spoked the contraction of the interhearing contracti

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Doel, A. R. Operative Treatment of Facial Paley

On M. J. Operative Treatment of Facial Paley

Duel reviews experimental work on nerve states which he carried out with Heliance it was found when sterning degeneration was permitted to part and recognition to the beautiful particular to the text percentage and permission occurs in the grant become transportation the rethe second are textoard in the con-tourn to one-pet in the contract in the con-tourner to the con-pet in the contract in the con-pet in the contract in the co the time required by fresh grafts the time required by first first The arterior costs any cres ! Aced quantities the mass in its had the degeneration in the mere to be used re quired from two t three weeks

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# SPINAL CORD AND ITS COVERINGS

Harverth, E. M. The Treatment of Syrindromyola by X Rays. See J. Endow 934, 7 feet. The author discusses the history and pathology of synogeografia and reports at Cases which show that the transfer of the trans means of trusting the disease. If states that more construct on comments for the contract of the followed by a marked improvement in the substitute Name and a married imbodement in the substitute crause and that the quarter of the court of the Manterona Account a contraboneral contrators CHOICE AND LOST TOOL TOO TOO TOO OFFICE OF THE PROPERTY OF THE hatters about it surproved the transport of the trust income. Fallered are trust itself to correct in the transport of the constant o hinter before the implication of fractions: Even in such cases, however, for the progress of the direct any to grade As a rule the first progress of the direct formation to be a formation of the control of the progress of the first progress of the formation in the formation of the first progress of the firs by improvement in marcher power and keer by by majorizeness sa majorizes power and some of Asia as to the locations of inhancement the space

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The author's six cases are reported in detail. In general, the results are similar i those reported to detail. In A beautiful operation on summer a comment of the second substitution of the soccomful to some arrant to all of them He would draw the following conclusions

throughou must be advanted as praint as established place in the freetment of symptomychia

2 The technique appears to be of minor importance as many techniques have been successful

3 Early diagnosis is important

4 The pain sometimes associated with the condition can be relieved by irradiation

ADOLPH HARTUNG, M D

#### SYMPATHETIC NERVES

Davis, A A The Surgical Anatomy of the Presacral Nerve J Obst & Gynac Bril Emp, 1934, 41 942

The presacral nerve is the portion of the abdominal sympathetic system which hes anterior to the bodies of the fourth and fifth lumbar vertebræ in the space between the common iliac arteries. Above and laterally, it is connected with the solar plexus and upper lumbar ganglia through the intermesenteric nerves of which it is the direct continuation downward. In the midline, the plexus is connected above with the inferior mesenteric ganglion or the inferior mesenteric circumarterial plexus. Laterally, it receives a branch from the lowest lumbar ganglion on each side. Below, it terminates by dividing into the paired inferior hypogastric plexus. The latter usually consists of two long nerves united by many oblique anastomoses.

Morphologically, the presacral nerve presents many variations. The most common are (1) a narrow plexus of two or more parallel nerves, (2) a true or single presacral nerve, and (3) a wide plexus of

parallel nerves Less common forms are (1) a false presacral nerve, a spider-web plexus, and (2) a wide plexiform nerve. The plexus gives off branches to the superior hæmorrhoidal artery, external iliac artery, and middle sacral artery.

The presacral nerve hes behind the pentoneum. somewhat to the left of the midline, on the bodies of the fourth and fifth lumbar vertebræ, from which it is separated by a dense sheet of fibrocellular connective tissue. The fibrous lamina is easily separated from the plexus and from the lumbar vertebræ behind The middle sacral artery intervenes between it and the bone in the midline. Below the promontory it rapidly becomes adherent, eventually merging with the sacral periosteum. The anterior surface of the plexus is covered similarly with a finer but still definite layer of connective tissue, the locally condensed subperstoneal areolar tissue. The two laminæ fuse at the lateral borders of the plexus, which is thus isolated within a fibrous sheath. This disposition is of considerable practical importance as it allows complete extirpation of the plexus without isolation of its constituent nerves and without danger to the subjacent vital structures. The relation of the plexus to the great vessels varies with the level of the aortic bifurcation and the direction of its branches As a rule, half of it lies upon the left common that vein and half upon the bone. The left ureter and the pelvic mesocolon and its vessels are usually situated well to the left of the presacral DAVID JOHN IMPASTATO, M.D.

# SURGERY OF THE CHEST

## CHEST WALL AND BREAST

Tod, M. C., and Dawson, E. K. The Diagnosts of Treatment of Doubtful Managery Tamora

Definitely managnant tumors of the becast regelrs frent surgical treatment, whereas temporary and bostiph baruju mammarh supriess sembasah and have the second and the second and the second second between the second with memorious our tan memorium ratery impure surpoil interference. Bet een these two extremes are the benign tumors and the tumors generally are the brings tumors and the tumors armoning referred t as doubtful, borderine, or suspectors, the freatment of which ranges from local excision the treatment of the surgeon Because of the

the questions of obstron telesting the take of see caverposes or opinion regarding con type or tain a guide from study of their pathological material, operath e proceedures, and follow-up results They stress the difficulties of clinical diagnoses and the frequent accessity of relying on microscopic con irreporat occuracy or traying on meroscopic canadization for the final deviction in bordering cases. Their views as I treatment may be same

In the cases of 3 owner individuals, local exclusion is adequate for fibro-admona and possibly for cer ista chrone infections. In the cases of patients over thirty fire years of ge, simple mentertony is always to be preferred to local errange for these one

Simple mestectomy is to be recommended for all cases in which there is doubt as to the presence of inspiratory to the excellent of the cases but viously mentioned and cases of acuts carenoms riorny menuoned and tenen or acuts caronoms and pregnancy and factation tumors. With these exceptions, ample amputation with gross examing tion ill often solve the propers of dragoons ill malignancy is person, radical operation should be performed it once, whereas it the leasen in beingen nothing further need be done If impossible by gross examination, a choice ment be made between ( ) immediate radical masterious and ( ) later sucroscopic examination followed by secondary radical estupation or unadiation alone If malignancy is demonstrated The two-stage oper tion is not dangerous if racked removal is not delayed too long

Radical markettomy as primary procedure should be carried out in all cases of obvious management and or carried out in an used to voyante magnetic immediately after sample mastectory hen gross examination at the time of operation reveals chnically borderline tumor to be mangnant

The chief conclusion draws by the authors is that diagnostic simple mastercomy is the best initial stage of treatment of doubtful tumors of the breast ARTER S W TOUROFF H D

## TRACHEA, LUNGS, AND PLEURA

Ernant, IL: The Influence of Different Deliver of Distriction upon the Blood Flow Through the Lines (Langue carcindear Debragamentale Larrie (Lincolne communicati Action approximations of the Describbilities der Lange) Describe Etickf Chr 934, 243 505.

A review of the literature above that up to date there is no ensulately of opinion regarding the per fusion of blood in the collapsed long. Some investfrance or more than the perfusion is locrossed lected gainers occurred in the parameter of the spite of very ocuses on a sound or occurance in state or and sing the perfusion of blood in the lengs during minethorace obtained and in shie of extension most edge galaced from his experimental studies, Sener pracy concussed that the docation of ballsmon of plood to the collabsed bind has not let bein dis-nature concreted true the diseases or between a

Krapes reports expensioners carried out to deter seine beiber and in what masner warying degrees of distriction exert a mechanical inflorace on the or construent exert a mechanical somewar or second of the lung. The amount of periodos h the purk to different petition of expension can be determined by means of the heart hing preparation named after Staring This consists essentially is exchains of the greater circulation. The heart and extension of the States curtaining black and sachanged. The greater circulation is replaced by an artificially closed system through which the left entricle sends its blood. This tremists of four parts. as arterial resistance as substitute for the vacide resistance to the prester circulation () theometer (3) n apparatus for arming the palsetting plood od (4) regulator of the senses setting paper not (4) regulator to the shown in sa illustration, and the experiments are reported in

I the experiment described the blood sent from the right heart through the longs comes out of the left beart int the artificial greater chreslation which se provided with the accessive arrangements for measurement When no excess or afferent flow of blood occurs in the Inflow powastes and there is no lank in the preparation the delivery bet cen the right and left venturele is balanced. This condition is established apontaneously in few seconds and can be recognized from the courtainty of the curren The volume coming through the greater circulation is carely measured and compared with the for through the same (Strict speaking, then is less by the amount of the volume of the coronary atteam) As this volume is almost constant when the northe pressure is fairly constant, measurement in the greater circulation in place of measure mere in the pulmonery riers as reliable and

sufficient as the purpose of the study is to determine only the difference in the perfusion in different degrees of distention of the lung and not the absolute amount of the perfusion As the result of the exclusion of the greater circulation in the experimental animal the central regulation of the respiration is also eliminated and artificial respiration is necessary It is therefore possible to investigate not only the influence of the frequency and depth of respiration, but also that of pulmonary inflation resulting from varying degrees of obstruction to expiration The volume of perfusion in the lung under a constant respiratory pressure can also be measured As compared with normal respiration there is of course a difference as the respiration is not a suction breathing but a pressure respiration For distention of the pulmonary vessels and the difference in pressure between the right ventricle and the left auricle which is necessary to overcome friction within them, there is no physical difference between normal respiration with a closed thorax and positive pressure respiration with an open thorax as the heart and the pleural space remain under the same surrounding pressure

The following records are made in every experiment (1) the average aortic pressure determined with a mercury manometer at the free leg of the cannula in the innominate artery, (2) the average pressure in the right auricle determined with a water manometer through a cannula inserted through the inferior vena cava into the right auricle for control of the inflow of blood, (3) the average pressure in the pulmonary artery determined with a water manometer in a branch in the upper lobe of the right lung, (4) the perfusion volume of the greater circulation determined by the Stolnikov method, (5) the intratracheal air pressure determined with a Marey capsule placed toward the trachea in the Y-cannula, and (6) the time in seconds determined by Jacquet time marking. These six registrations are made on an optic Lymograph by shadow projection In addition, the temperature of the blood is measured with a thermometer in the cannula of the superior vena cava and read when the stream volume is measured

The experiments showed that in the heart-lung preparation of Starling the minute volume falls with increasing distention of the lung. It is immaterial whether the pulmonary distention is produced by constant pressure, deep respiration with expiratory collapse, or rhythmical forced breathing. In spite of the falling minute volume, the average pressure in the pulmonary artery is increased as the result of increasing resistance in the pulmonary stream bed. In very marked distention failure of the lesser circulation may occur.

When the respiratory air is constant and the pulmonary distention is moderate, no distinct influence is exerted on the stream volume by the frequency of respiration

Complete collapse as compared with moderate distention of the lung shows a diminution of the

minute volume A simultaneous decrease of the average pressure in the pulmonary artery with an increase in the stream volume during the forced respiration of a collapsed lung is caused by a decrease in the resistance in the stream bed in the lung

With constant distention of a collapsed lung the minute volume increases from 3 to 6 per cent, but with distention of the collapsed lung by slight to moderate rhythmical forced respiration it increases from 17 to 22 per cent Comparison of these figures apparently shows that in a lung in forced respiration the resistance in the stream bed is less than in a lung equally distended but not subjected to forced respiration. Therefore, in the respiratory rhythm there may be a force which strengthens the pulmonary perfusion and is manifested by the decrease in the average resistance in the pulmonary stream bed

With exclusion of half of the stream bed of the lung the stream volume diminishes only about 10 per cent, but when the entire lung with the exception of one lobe is excluded the stream volume diminishes about 57 per cent

The clinical results of the experiments show the hamodynamic behavior of the pulmonary vessels and reveal the influence of various degrees of distention upon the pulmonary stream bed. The changes are manifested not only in the resistance and the amount of perfusion, but also in the amount of blood in the lungs. The changes in the pulmonary circulation constitute only a part of the process taking place during respiration. The described changes in the stream bed are of clinical importance only when the right heart is no longer able to meet increased demands.

However, for the surgeon the results have special interest because they constitute the basis for an understanding of the effect of certain therapeutic procedures and of disturbances during and after operative interventions in the thoracic cavity. For example, pulmonary collapse therapy is based upon an artificially produced relaxation of the lung obtained by pneumothorax or removal of bone from the thoracic wall. It has long been believed that the curative processes begin with a change in the perfusion, but up to the present time the nature of this change could not be determined with certainty Experiments have shown that optimal perfusion occurs, not when the lung is collapsed completely, but when there is slight distention or forced breathing equal to a movement of from 3 to 15 mm of the edge of the lung Therefore it is evident that the optimal effect of pneumothorax is obtained, not with positive pressure causing complete collapse and complete cessation of respiratory movements, but only when there is still a slight distention or respiratory movement in the relaxed lung Under the latter conditions a specially favorable perfusion of the lung is obtained. This theory of perfusion in the relaxed lung applies of course also to all other constricting measures such as thoracoplasty, paraffin filling, and exercsis of the phrenic nerve Therefore during the operation it is important to adjust the

differential pressure apparatus so that whom the uncertaint pressure apparatus so that whose the thorse is open the best possible perfection—alleged resolutions of the collapsed full—as settled to the collapsed for head to the c inguratory interested or the construct start with consider. This empleically discovered fact has been proved by the experiences because net one is

ferred by the experiments necessary reputers.

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too see, there previously is very tare totarwing outsit thoracle interventions or at any rate, occurs much Docume interrentions or at any rate occurs macen fees frequently after such operations than the first faitures for the upper abdoman When the distinction at the end of the operation when the the classification to have not considerable to model the contraction to have not considerable to the conthe circulation is better and engagement is less likely to occur

they to occur

Recently, relaxation therapy has been profied on
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is explained by the finding of the beneficial effect
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manage. As in all informations overwares because of is experience by the manings or one whose supercauses the inflammation to dissiple a more decitiand renders it less harmful the effect of this treat and records it was included included on the superior perfusion of the

Ringer P. II. Surpay in Polinomery T. Describeds (in increasing importance, See Surpay, 1994).

Ringer discusses the surgical treatment of pulmoney teperations (on the medical point of view He states that premiorhors is indicated who the states that presumotioner is indicated word triped that candidate pand becomen amountained formation, in one land, the contralatest was to tormstoon, in one stand, the contributions may be entirely sound or contains only a fabroic and quiescent lesson, and the sole from which the bleed the center's broduse psemobifies is despitely sacer tunable

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ne operation or study attenue preumouses is come to crass to warm Through a thoraconcope, adhesions are studied and account a supercustope, concessors are atomor and localized and then are cut with as electroscopical ends. This is a highly specialized procedure. 'y's thoused cases' internal bearmonists tradent an amelifiactory collapse satisfactory in 15 per

In several, thousamplesty is limited to cases of an account towards and chapter to case a moderately or far advanced chapter towards to case a nonerating or let appraised convex impartured, with or without hemophy etc. In which the imparture ere of the span-operation (about the source rest entered to a surface to a of the harp-decreases type, with by street the form has a compress, and connect principally to one hing, the green condition best, and finition is taken whose are fairly good, and all other treatment hand, other are supported by the contraction of the con tenercycles are suny good, and an over transmit including a sufficiently long monitoring regime and decimands to tradece artificial precure/form regime and

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Broom, IL Lund Abscent, J Am 1/ Arr 1936.

The author discusses various methods of treating long abscess and reviews to and results in southern the contract of the second the fed to the barjod town to 2 to 614

He states that postural dramage is not as valuable to long absents as in brouchfactary. In the case of to some absence as in processoring to our case at the eccompant boarpon tengers expectoration most tendent as no sea men at a sometimes mentaling as you transfer a sometimes mentaling as you transfer a sometimes and sea mentaling as you are mentaling a recomment position removes expectoration their the abscess has broken into a bronchin, postural drafa-

Broochoscopy is azasthfactory as a method of treating lung shaces Artherst poeumotherar (ands to brest dos proterting adhesions and only favor reptime of the

ective agreement and may taken repeats to the reset. Litterne bactellines and exchious min feet most an una tudactory Aditive at

Avery treatment may prove to be a valuable For dragnosti, Brunn considers V ray cramination

most important. H. Discreptible retained on his stall dagance, but states that in the interpretation of the insequence, our states that in the interpretation or the openigenogram the surgicon must be guided by the flodings of physical examination

Because of the predominantly anaerobic nature of the organisms present in lung abscess, aeration of the abscess by wide surgical opening is imperative Operation should be performed in 2 stages, the first stage consisting of attachment of the visceral pleura to the chest wall. In 32 cases in which a 1-stage thoracotomy was done the mortality was 64 per cent, whereas in 28 cases in which thoracotomy was done in 2 stages the mortality was 32 per cent

Of the total series of 205 cases reviewed, 133 were treated medically and 72 surgically Of the patients treated medically, 63 were benefited Of those treated surgically, 40 were benefited and 32 died

Prolonged medical treatment previous to operation is apparently of no advantage

G DANIEL DELPRAT, M D

## Edwards, A T Malignant Disease of the Lung J Thoracic Surg., 1934, 4 107

Edwards reports on seventy-three cases of carcinoma of the lung Fifty-three of the patients were men Forty-eight were between forty and sixty years of age The oldest patient was sixty-nine and the youngest twenty-six years of age The right side was involved in thirty-three cases, the left side in forty, the left lower lobe in twenty-six, the right lower lobe in twenty, the left upper lobe in fourteen, the right upper lobe in six, the right middle lobe in five, and the right hilar region in two

Among the important symptoms were cough, the expectoration of sputum which generally was of a mucoid frothy type but occasionally was definitely purulent, hæmoptysis varying from slight staining to brisk hæmorrhage, dyspnæa, and pain varying from occasional discomfort to intense neuritis

The clinical signs were generally those of bronchial obstruction causing atelectasis of the involved lobe. In the later stages there was secondary pleural effusion. Loss of voice or hoarseness or the appearance of Horner's syndrome suggested the presence of the disease in the mediastinal glands. Clubbing of the fingers and toes was not uncommon

Roentgenography, bronchography with lipiodol, and bronchoscopy were of the greatest aid in the diagnosis

The treatment consisted of radical operation or the implantation of radon seeds. The author designed special containers for the radon. These had a lumen for the passage of air and fluid when the containers were impacted within the bronchus

The end results were poor, especially when the diagnosis was made late. However, in a fair proportion of the cases the treatment resulted in definite rehief and prolongation of life, and the author believes that in a small proportion there is a chance of cure.

J Daniel Willems, M D

# Fariñas, P L Serial Bronchography in the Early Diagnosis of Bronchial Carcinoma Am J Roentgenol, 1934, 32 757

Serial bronchography permits a diagnosis of bronchial carcinoma in its early stages and therefore

should be used in all cases in which bronchogenic carcinoma is suspected from the clinical picture

The roentgenological signs of bronchial carcinoma depend upon the type of the tumor. The polypoid type causes a filling defect which, when observed in profile, has the appearance of a notch in the bronchial contour. The infiltrating type produces concentric stenosis which generally occupies a considerable portion of a large bronchial and extends along its branches. The necrotic type produces irregular bronchial cavities with diffuse borders. When the tumor is located near the large bronch it may compress or displace them. When it is more peripheral it displaces the bronchioles or the parenchyma

The negative shadows, the notches, the concentric stenosis, and the irregular bronchial cavities with diffuse borders (produced by destruction of the bronchial walls) are signs of bronchiogenic carcinoma in its early stages J Daniel Willems, M D

#### Geschickter, C F, and Denison, R Primary Carcinoma of the Lung Am J Cancer, 1934, 22 854

Reports in the literature on cancer of the lung emphasize the increasing incidence of the disease, its frequent occurrence in young persons, and the importance of bronchoscopy in early diagnosis. The disease runs a rapidly fatal course with early and widespread metastasis to other organs. Untreated patients rarely survive the diagnosis by more than six months.

The more common form, which usually occurs after middle age, is the hilar cancer composed of epidermoid cells resembling the lining cells of the large bronch. The less common form is a diffusely growing adenocarcinoma which usually occurs earlier in life

Cancer of the lung is more common in males than in females Irritants causing chronic inflammation are believed to be predisposing factors

The disease may be present for some time without causing symptoms. The first sign is usually a dry, non-productive cough. The expectoration of blood-tinged sputum and of tumor tissue, pain, and clubbing of the fingers and toes are late manifestations.

The physical findings vary with the size and location of the tumor. As a rule physical examination discloses localized dullness, increased breath sounds, and diminished tactile fremitus. A cough of insidious onset, wheezing respiration, and dyspince out of proportion to the physical findings are important clinical features. In some cases the earliest signs and symptoms may be due to metastases.

The authors review 60 cases in which the diagnosis was confirmed by microscopic examination and the distribution of the tumor determined by roentgenography or autopsy Eighteen of the neoplasms could be readily classified as adenocarcinomata and 34 as cancers of the epidermoid type. The rest could not be classified satisfactorily. In typical cases of hilar carcinoma the roentgenogram

was followed by rocalting, weakness, and the in the temporature to roy degrees F. The patient developed granulocytogenia: She had been given alloned and pyramidon. After several doses of peatmedesticide and a blood translusion also recovered. Later X-ray treatments; given at longer

intervals and in smaller dones were well borne. The pathological diagnosis of the lung terror was carcinoma of the lung, Grade s

The patient was discharged in fair condition on

April 20, 1934.

I concinsion the author calls attestion to the difficulty in diagnosing a primary rumne easily the importance of the proper interpretation of early symptoms the difficulty of interpreting easily to contemporaries and the comparative case with which to bectromy may be performed accordingly to builthis cases.

| Lower Karazaranca, M D

Orerholt, R. H. The Total Rectoral of the Right Lung for Carcinome. J Thereis Surg 1944, 4 00.

The a thor reports the first case of removal of the entire right long for malignancy. Removal of the entire list! long for malignancy has already been reported in the literature. In the author's case, broachescopic beeps was negative for malignancy, whereas the christia and X ray withence was strongly.

positive

Following the preliminary induction of pactorsthorax, the operation was performed under sizesthesis induced with an intratrachesi tube and a closed circuit Cyclopropuse gas amesthesis was chosen because it can be induced with concentre tions as low as from 5 to 15 per cent and therefore perceits the administration of from \$4 to 05 per cept of express chiring the course of the surgical assesthesis. While the surgeon was working on the root of the lung, the augustactest purposely caused resea tion of respiration. Apaces was undeced by over ovvenetion until respiratory movements ecoposed Gentle and informal inflation and deflation of the left long was carried out artificially by mampulating the beg on the closed circuit rebreathing apparatus The appear was maintained for forty-five minutes and greatly facilitated the work on the hung root

The long was removed in one stage and the chest cheed without importunits thorscopiatry. This procedure is of advantage because the pathological condition is removed manediatrity and, with closed and rigid thorsay pressure against the least sail mediations can be controlled [Thorscopiatry wis performed later East O Lamons, M D

#### CEOPHAGUS AND MEDIASTIAUM

Ocheser A., and Owens, N. Anterethoracic (Temphagophaty for Impermable Stricture of the (Lembrague, A. Jurg. 1914, so. 1055)

The first attempt at anterotheracic enophagoplasty was made by Bircher in 1841, and the first successful anterotheracopia performed in 1907 by Rouz. The authors have analyzed the reports of ago cases in which an interoshoroze enophaspolasty was attempted for arterios of the enophaspolasty was attempted for arterios of the enophaspolasty as does not performed. Dermate-enophaspolasty was does in 19.4 per cent [spinoc-enophaspolasty) as 1.4 per cent [spinoc-enophaspolasty) is 4.1 per cent solution-enophaspolasty in per cent solution-gratico-enophaspolasty in 9.0 per cent gather-on-phaspolasty in 9.0 per cent gather-on-phaspolasty.

and incomplete series of operations in 3 per cent. In dermative-mosphatepolarity the new morphages informed entirely from the acts of the acts does not be being used to connect the certifical encophages and the atomach. The interpretional manipolation is minimal and the entire this toke can be made in 3 stage. A disadynature is the charger of dispassion of the skin table by the patch contents at the point of anastemosis between the staff toke and the streamth. The operation was completed in 35 per cent of the cases in which it was completed, fire cases in which it was completed, in

results were good or fair in 33.6 per cent.

Ja jejeno-unphangolasty has zer carphagus hemsed from a loop of jejasom which is nothalted antarior to the thorus and because the state of antarior the the thorus and because the state of antarior them. A theoretical adventage of this type of operation is that the gain trains in perfect the carried product of the carpet of interference with the blood mappy of alongs of interference with the blood mappy of a long long enough to rate of from the cervical region to the stomach. The open these was completed up yield per cort of the case for which it was attempted the carpet of the car

Jejunodermeto-usophagoplasty tondats is the formation of a skin tube for portion of the sawly formed rescribings and the use of a metalized less of reframes for the remaining portion. The advantage of this technique is that the jejunum is better abo to withstand the digestive action of the storack than the side tube, and when a skin tabe is used for the upper portion interference with the blood servir of the jepthal loop is issue upt to occur. The operation was completed in 65 3 per cant of the cases in which It was tried, and the results were classified as good in 97 8 per cant of the cause in which it was completed The uthors believe that this is the procedure of choics although at requires large number of operations. The average number in the cases preserved was 4.1 whereas the average number in the cases in which jejono cosophagoplasty was done was a f In cole-traophagoplasty loop of the colon is used to bridge the distance between the cervical emoraagus and the torasch. This operation was detre in relatively small group of the reviewed cases, but per cent Fair to excellent was completed to 0 results were obtained in 90 per cent of the cases in

In salphogogastro-esophagoplasty the new esophagus is formed by tube formed from the stemeth 4 disadvantage of this procedure is the duaptr of

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Gastro-œsophagoplasty consists in mobilizing the entire stomach anterior to the thorax and anastomosing it to the cervical œsophagus. It has the advantage that it can usually he done in it or 2 stages, but the disadvantage that it is a formidable procedure. Of the cases in which it was attempted it was completed in 45 4 per cent. Function was good in 60 per cent of the cases in which it was completed.

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Jackson, C. L., and Konzelmans, F. W. Bronchiel Carcinoma, J. Thereice Surg. 934, 4 51

The authors review thirty two cases of broncho-The authors review that I two cease or more than the distributions was compolinosary cancer in which the diagrams as a ca-inged by interchempic keepsy. They emphasise the improvement of bronchempsy as a fraction procedure in conjunction of the process of the state that the conjunction of the process of the state that the confunction of the process of the state that the confunction of the process of the pro-team of the process of the process of the pro-team of the process of the process of the pro-team of the process of the process of the pro-team of the process of the process of the pro-team of the process of the process of the pro-team of the process of the process of the pro-team of the process of the process of the pro-team of the process of the process of the pro-team of the process of the process of the pro-team of the process of the process of the pro-team of the process of the process of the pro-team of the process of the process of the pro-team of the process of the process of the pro-team of the process of the process of the pro-team of the process of the process of the pro-team of the process of the process of the pro-team of the process of the process of the pro-team of the process of the process of the pro-team of the process of the pro-team of the process of the process of the pro-team of the process of the process of the pro-team of the process of the process of the pro-team of the process of the process of the pro-team of the process of the process of the pro-team of the process of the process of the process of the pro-team of the process of the process of the process of the pro-team of the process of the process of the process of the pro-team of the process of the process of the process of the pro-team of the process of the process of the process of the pro-team of the process of the process of the process of the pro-team of the process of the process of the process of the pro-team of the process of the process of the process of the pro-team of the process of the process of the process of the pro-team of the process of the process of scale ting orongocopie examination is dematted included in cases with cylidence of brooches obstructransaction are cases with evaluate on more areas mentions.

It is of the utmost importance in the early tame, at a series organization of peoplasms and accurate localization of peoplasms and a Enque (or university accordance (it sees as Sune to several suspend procedure in several of the occum amore a rounne processor and a widely med shroad is the examination of patients with coops and expectoration or hemopyten when the ment procontract full to reveal the presence of t between

Rures that to serve the present of biopsy the authors at that before hispay is done a careful study of the brunchescoper picture abould be made and the degree of any distortion, function, and influences of the broachil wall should be noted. The times for the information count be obtained from the growth finell and not from the inflammatory and some or gramm lations Care abould be taken to present transms to principal point and to around british too deeply hate the tanne. If the broachid wall shows no definite involvement or cally alight belong, biopsy abould be postpoored

The thors discuss the cleanfestion of broacho genic heoptume on the beas of the type of cell Of the thirty-c leasons in the cases review of four acte stanocarcinomata screm afusmous-cell cur rear assume at comments of cell type difficult combined squamers cell careto transmi in comment squares our care-normals and adenocarenomals four, define small outcome and averaged transmiss four outside singuistic four co-called metallary cartinomats four round-crit or so-taken generally sections from contributions a similar to the last mentioned grounds carriaments summer to but a th cells presenting there corded or tubular supplierance and three metabatic caronamete

The authors state that m the grading of brea chopense neoplasms the chancel and rocatternographic causing newspapers of current and consequences and forming must be taken into account. The prognous in the case reviewed was grave. T. data, none of in the came ferrower was more than contain most on the patients has lived longer than eighteen months the persons may area sought than eigeneen months after the appearance of symptoms.

The history and the X-ray bronchoscopic, and

biopsy findings in each of the thirty-two cases

reviewed are reported. The article is professly farance are reported the article is profinely fillustrated with photomicrographs of some of the timosa and quasible spossible the processors of the processors of some or the processors are processors of some or the processors and the processors of some or the processors are processors. bbests and maximals amonths rue in color minors and maximals are minors.

T Itle, W McC., and Womack, N.A. Bronchi this, w Alctis, and women, w. a. according to T satesent and Produceds. J Thereis they

Most, if not all, primary carcinomate of the lang Are of hypothogenic origin, arising from the from chief epitherium. These tumors are chemical by the authors into () those arising in a major brooker. authors into 1 / forms arising in minor bronches or the

and (2) to be strong as a many control of the part of the tion Tomors of Grade 1 are those in which most is of the cells lend to reamble adult dilated cells or colori cells or form definite squaroors epithelics Those of Grade Are Ismore which for the most part show a (codency toward differentiation, but the part acces a tentional transit transmission of a high are not quite so matters. Of Grade 3 cars or since are not calls which to large carse cars or since are box of the band calls which to large carse.

In the review of cases, the length of time classes bet een the object of the symptoms and death oet een uer oesen ou toe avantoen kan oesen serrasted heen) i o and siz-teniha montha in osen of d'anter a d'anter montha in osen d'anter montha in cara d'anter montha in cara d'anterim and anterim montha in cara d'anterim anterim montha in cara d'anterim anterim montha in cara d'anterim anterim anter tempore of Grade s, and t tire and eight trails months in cases of Grade 1

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As compared with fusions of the mlaor broads as compared with innexes of the moor oversal and the periphery of the hing, tuncers of the major and the personal of the state o tioniy a diagnosed more canly (expectally by blopsy (through the bronchoscope) and are some

Rabin, C. B., and Newhof H. A Tepographic Canadication of Primary General of the Land Les Application to the Operative Indication and

Its Application to the Operative Innerson Treatment. J. Therete Surg. 816, 4–147 Because of the fact that I the present time interest in cancer of the lung seems to be centered on the advisability of surgical removal, the authors are led to suppose new classification of cancer of the larg based on gross topography and distribution high they have found of aid in determining oper ability From analogy they conclude thet, in general, bronchools monary cardinomata can be divided into must

from a with very few borderine case. The casel can be they angest is as follows. Circumscribed cancers (usually operable) Parentymal ( per cent of the setal member) X ray exemisation short

sphenoal well-demorated growths in the substance of the hing, some of which

may involve nearly a whole lobe. In cases of large tumors, bronchoscopy may reveal compression of the bronchi. There are usually no symptoms except those referable to the local increase in the size of the neoplasm. Regional lymph-node involvement occurs late and is limited.

B Peripheral (12 per cent of the total number) X-ray examination shows a well-demarcated shadow at the surface of the lung, which widens at the chest wall Bronchoscopy is usually negative. The symptoms include local or referred chest pain Regional lymph-node involvement occurs late and is limited.

Non circumscribed, infiltrating cancers (usu-

ally moperable)

A. Main bronchus, non stenosing and stenosing forms (63 per cent of the total number) X-ray examination may be negative or reveal root infiltration, atelectasis, infection of the lung or pleura, or metastatic lesions Pleural effusion is frequent and may occur early Bronchoscopy is positive The symptoms are cough, hæmoptysis, infection, atelectasis, or metastases Regional lymph-node involvement occurs early

B Branch bronchus (13 per cent of the total number) X-ray examination may be negative, reveal the picture of unresolved pneumonia, or disclose evidence of metastases Pleural effusion may be present Bronchoscopy is usually positive The symptoms are usually those of metastases Regional lymph-node

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At the Mt. Sinai Hospital, New York, more than 250 cases of bronchopulmonary carcinoma have been studied according to this classification during the last ten years

The article includes photomicrographs, photo graphs of gross specimens, roentgenograms, a brief discussion of 5 cases in which operation was done for the removal of a primary cancer of the lung, and an outline of the indications for operation based on the topographic classification

JAY EUGENE TREMAINE, M D

Eggers, C Lobectomy for Carcinoma of the Lung J Thoracic Surg, 1934, 4 211

Progress in the treatment of malignant tumors of the lung has not kept pace with general progress in thoracic surgery mainly because the early diagnosis of malignant tumors of the lung is still difficult. There is much to be learned concerning the onset of malignant tumors of the lungs and bronchi, their progress, their invasive qualities their pathological character, and their radiosensitivity

The safety of lobectomy and pneumonectomy depends on early diagnosis made before the primary

growth has become attached to or has involved the surrounding organs and before the main bronchus has become involved.

A case of carcinoma of the lung in which lobectomy was performed is reported in detail patient was a woman forty-five years of age who was admitted to the hospital January 3, 1934, complaining of pain in the left chest, bloody sputum, dyspnœa, and night sweats The findings of physical examination suggested a pleural effusion, while the history indicated a lesion within the left lung After two aspirations each of 1,100 c.cm of clear straw-colored fluid followed by the injection of air, X-ray examination showed the left lower lobe nearly collapsed The upper lobe was prevented from collapse by dense bands of adhesions as well as by an intrapulmonary lesion resembling a cavity of a suppurative focus, although the pleural effusion suggested malignancy

Bronchoscopic examination revealed distortion of the left main bronchus By this examination it was determined that the lesion was probably malignant although chronic abscess could not be ruled out

In the absence of positive support from the roentgenographic, bronchoscopic, or laboratory examinations, a clinical diagnosis of probable malignancy of the lung was made on the basis of the gradual onset of the condition with the expectoration of blood, the afebrile course, the increasing

dyspnœa, and the pleural effusion

Under colonic avertin anæsthesia supplemented by nitrous oxide oxygen and ether, an incision was made along almost the entire fifth intercostal space After some difficulty in freeing the lung the lower lobe was found collapsed and very solid. It was extensively adherent to the upper lobe The upper lobe contained a hard, nodular visible tumor On liberation of the lower lobe the tumor tissue was found to extend close to the main bronchus and numerous small tumor implantations were discovered on the lateral chest wall, in the pleura of the lower lobe, and covering the aorta. In spite of this, lobectomy was performed in the hope that the metastases might be controlled by X-ray treatment An attempt was made to inflate the contracted lower lobe by making multiple incisions in the visceral pleura, but was unsuccessful on account of the thickened condition of the lobe The chest wall was closed in lavers, and closed drainage was maintained through a stab wound in the ninth interspace by a 1/2-in rubber tube, the outer end of which was kept under a fluid level.

The postoperative course was relatively uneventful A roentgenogram of the chest taken after twenty-four hours showed fairly good lung expansion with no displacement of the mediastinum. The chest wound healed by primary union. The patient was allowed out of bed on the eighteenth day

X-ray treatment was begun four weeks after the operation, but was discontinued because of a severe reaction Later it was repeated and was again followed by a severe reaction. The third treatment

was followed by vomiting, weakness, and a rise in the temperature to or degrees F developed granulocytopenis. She had been given alloral and pyramidon After several does of anoma and pyramicon After several doses of pentine-lectricle and a blood transferiou the repennanceurse and a most demanate and to-

current sater view treatments given a sauger intervals and in smaller doses were well horne The pathological diagnosis of the lung immer was carcinoms of the lung, Grade a.

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April so, 1934 In conclusion the author calls attention to the difficulty in disposing a primary tamor early the concenty in cassionage a primary came easy use importance of the proper interpretation of early symptoms the difficulty of interpreting sard Symptoms and the comparative case with shirt lobertomy may be performed successfully in suitable cases J COMIN KIREPATRICK, M D

Overbolt, R. H. The Total Removal of the Right Lung for Carcinoma. J Thereic Sury 934.

The uthor reports the first case of removal of the entire right imag for mangemency. Removal of the enths left long for malignancy has already been reported in the literature In the author case, pronchoscopic probal are occurring to unplantoch whereas the chinical and A ray evidence was strongly

Following the preliminary induction of postumothorax, the operation was performed under smeathese induced with an intratracheal t be and conditions became it can be induced with cocentre tenes as low as from 5 to 5 per cent and therefore permits the administration of from 85 to 95 per cent of cayen during the course of the surpoil anses While the surgeon was working on the root of the lung, the amendment purposely caused cesses tion of respiration. Apares was induced by overoxygenation until temperatury movements ecobord Certile and minimal inflation and deflation of the left lung was carried out artificially by manupulating the pag on the closed circuit representing phenators The spoon as maintained for forty-five minutes

and greath facilitated the work on the lung root The bing as removed in one stage and the chest closed without mmediate thoracoplasty. This pro-Coden without minemata annual property cades in of advantage because the pathological condition is removed immediately and, ith closed carrieron is removed immediately and, it is comed and fight thorat, pressure squarat the beart and mediatrium can be controlled. [Thoracoplasty was performed inter FAM O LAMERA, M D

## GEOPHAGUS AND MEDIASTIRUM

Octroner A and Owens, N Anterothoracie Gaophagoplasty for Impermeable Stricture of the Esophagus 4nn Jury 034, 00 51

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At present it appears that cure can be hoped for only from some form of irradiation. For irradiation we have at our disposal radium and the X-rays. When intubation with the author's spiral tube can be effected, this tube may be used very conveniently as a support for radium. A narrow gold tube about 6 in long is filled with radon gas, its ends are sealed, and one end of the tube is wound into a circle ½ in in diameter to form a ring to which a thread can be attached. This tube is lowered into the spiral tube, the ring resting on its upper aperture. The emanation tube does not interfere with the passage of liquids through the intubation spiral and is easily withdrawn at the end of forty-eight hours.

A method which the author has used extensively is the introduction of seeds by means of the esophagoscope into the substance of the growth itself It might seem that this procedure is essentially

dasperous since it is impossible to be some that the sects will not enter the medicatisms are the tar rounding structures. However in well over roo cases the author never aprosenced any trouble attributable to this cause. In a few cases a family attributable to this cause. In a few cases a family attributable to what the same that the covering the ability to resulton and their arcovering the ability to resulton and their arcovering the ability to resulton and their arcovering the ability to resulton and the particular died within a four. Journe K. Nasar, Mill.

O'Shaughnessy, L., and Raven, R. W. Sargical Exposure of the Geophegue, 3rd. J. Surg. 934, 363

The a thors carried out a series of dissections to determine the best surgical approaches to the resophatro. Measurements were made of the length of the crooplages and the depth of the organ from the surface at various kerels. The technique of each approach is given in detail.

In the approach described by the authors the cervical compliague lying between the trackes and the werthwal botten may be exposed for a length of a can. At the level of the upper border of the manabourn stern) its derth from the surface is 6 cm.

Five approaches to the thoracle esophages and the portion of enaphages exposed by each are described. The right transplayed approach to the

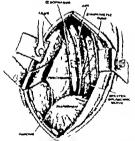


Fig. Exposure of the thorses emphasize from the arch of the north to the displacage by the left bramplement approach. The left long as retracted forward and the complesses in term typing between the decounting thereon areas behind and the pronounting in front. The letter constantes the greatest obstacle to clear vision of the overcharest.

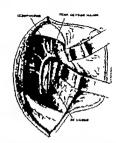


Fig. Exposure of the thorace morphagus at the lateration of the traction. The perival plears has been argued by the very lateral lateral from the very lateral lateral for the perival plears as exposed between the exposited lang and plears and the hocker of the verticate. The very larger as the articular lateral later

upon completague exposes  $\theta$  y cm of the fewedrant t a depth of  $\gamma$  y on. The right transplant  $\theta$  grows to the lower completague properties of the fewedrant properties and the depth of the strength of t

The abdominal coophagus can be expected for length of about 5 cm at slepth of 21 cm by the semple laparotomy method, and for kength of about 8 cm at depth of 14 cm by a modification of Marweid's method. By modification of the organ and retruction of the costal flap it may be brought about to the surface of the wound.

The uthors conclude that the upper crooplages to best approximed from the level of the thorsers tales to the lung root by the right transpiration section the sportion in the region of the lung root, by the right mechanism/roots and the lower exceptages from the level of the society to the control of the daphragm by the left transpired hatten of the daphragm by the left transpiration to the control of the daphragm by the left transpiration to the control of the level of the lower to the copy fluid collection to the level of the level

Poinso, R, Legrand, M, and Paillas, J E Sarcomata of the Mediastinal Glands (Les sarcomes ganghonnaires du médiastin) Arch mêd-chir de l'appar respir, 1934, 9 369

Sarcomata of the glands of the mediastinum are primary malignant tumors developed either from the reticulum or the leucopoietic tissue of the glands. The authors therefore prefer to call them "sarcomata" rather than "lymphosarcomata" as the latter term indicates tumors developed only from lymphopoietic tissue.

Sarcomata of the glands of the mediastinum generally occur in children or young adults. Their cause is unknown. Many factors indicate that they are of infectious origin. Among these are the temperature, which sometimes rises as high as 39 degrees C, the infectious condition, the rapid development of the tumor, and the hlood picture which shows a slight leucocytosis and polynucleosis. The authors describe the histological findings in detail with photomicrographs.

The tumors are classified into pure mediastinal forms, mediastinopulmonary forms, mediastinopleural forms, associated forms, that is, forms asso-

cated with other diseases such as tuberculosis, abscess of the lung, or bronchiectasis, which are rare, and metastatic forms Typical cases of the principal forms are reported by the authors with roentgenograms

The condition is fatal The average duration of life is about ten months. Sometimes death results in a few weeks. The longest survival was three years. In the pure forms long remissions can be brought about by penetrating roentgen therapy. The doses should he large enough to cause death of the pathological cells without producing necrosis of the normal tissue. The dosage necessary in the individual case will depend upon the effect on the tumor. The irradiation of the whole tumor should be homogeneous and the dosage so distributed in time as to prevent local and general accidents from too intense irradiation. The cross fire method from several portals of entry should he used to ensure homogeneity.

Surgical operation is generally impossible because the tumors are adherent and infiltrating. Median sternotomy may be done as a palliative measure for decompression but any operation is serious in these cases.

Audres, Goss Morgan, M.D.

## SURGERY OF THE ABDOMEN

## ABDOMINAL WALL AND PERITONEUM

Cattering, A.: The Bessini Operation and the Brenner Beckenbruch-Drumer Schmienen and Kirschner Operations (De Réminsche Operation and dis Operations such Bremer Backerbrack Drieser and Kirichori) Laurelle f Chir Sta

Cattering again eathmeastically recommends the Basini operation. He attributes poor results as recurrences to a poor technique and to the fact that beginners undertake the operation. In his seet the incidence of recurrence is only between I and per cent Poor results are explained also by i and per tent a top remain and caponing and are the fact that in German textbooks the fechanque of the Basini operation is often not described in number detail or described incorrectly. It is de-

The fundamental sim of the Ressiri operation is restoration of the inguinal canal from the anatomical and physiological standpoints. There are two open rues one appointed and one aspectaneous and two in the second se against the anterior was the positive was to use three fold layer of the internal oblique muscle, the transcendin much, od the transcendin facia which approach the posterior free border of Poopart ligament Cattering inches the transversale tascie scherates the tube jed at toom the backets tasing separates the trust make from the preper-tioned fairly dissue and from the poneutrons of the laternal oblayes means lying m f out of ft, and, to strengthen the westest laner point, lockrides the strengtons the action made point, accours use outer border of the rectus muscle in the first two taltenes of the deep row of artistes. The well-know high position of the internal oblique muscle never causes difficulties as east in cross of faith petiting the internal oblique muscle drops down after re-

ovan or one parameter too.

In the Brenner operation the cremister meads is the chief factor as the authored to the lower border of the internal oblique muscle and outer border of the rectus and therefore, especially in cases of high position of the internal oblique muscle covers the weak spot like an pron Catterina chima, however that its object as not accomplished as the crementer over the muscle has no telepoor to bothers, plantent It is related only to the testicle. Even though t is some times hypertrophe, the smally very than Moreover the injured hen the separated from the over the injured out to expensive tree testing of does not meet physiological requirements. When the results of the Brenner operation are not poor they depend, not open the cremerter, but pon reduplication of the aponeurous of the externel oblique mucie

In the Hackenbrack-Draener operation a deep in the standard present operation a corp. Bandal stime is not made. The operantic cord at placed between the leaves of the approximate. These coares offer less resistance to the intra-abdorated pressure than the posterior Bendul wall. The premote than the posterior norms was the cicurded adhesion between the posteriors any lead to desturbance in the operative and Dreemer believes that the constriction of the much Directly inners many the commenced to the bandles by the Interrupted sutures of Basers course trophy and it is a fact that Bassial drew his school so tight that they offered resistance to artificial presare at the time of the operation. However, Bulloth and Gozenhaper taught that at the site where the contractile substance of the stundle fibers is one concurrence momentum or the minutes more a con-stricted by satures it is split off an that only the onsective these surplement abouths are tracked to popular a ligament, while the much substance is the immediate vicinity is preserved. Drawns to the immediate vicinity is preserved. lierts that the separation of the pooreroic learn from their bed, which was considered injurious by Plans, is barmiers because the puttient coveration is restored after their replacement. He rejects sharp expansion of the hermin sac became of in danger Morrows, he regards the renoval of the crementer muncle which Researd demanded, as suckes

Schmieden performed the Bassial operation, but made now internal inguisal ring by boring through the internal oblique muncle. This favors the forms tion of connective tiesoe edhesions and disturbances in the spermatic cord. Schmieden claimed that is the Bassim operation the spermatic cord becomes angulated because the position of the internal inregional title in changed that by the torsion and the high ablation of the bermal sac and then by the were sustained in the posterior wall by which the new ring to displaced upward and petward. In the Schmieden operation this angulation does not occur and only from three to are drep sutares are poor

and these do not penetrate the three fold faver In the Kirschner operation the crementer is not removed and the spermatic cord is placed subcotancously after it has been allowed to make angelor tulats. The spermatic cord is therefore exposed to severe injury In Catterine's opinion Knacher's modification is the best, but is not necessary

(FRAME) LOCK NECESTIC, M.D.

Candel 31, and Securities, P. Results of Further Clinical and Microbiological Studies of Parties nitis and Its Prevention and Treatment 10k Serous (Ergebouse westers kindscher and marsbestegrecher Untermechungen unber die Partisecte and the Seresproph late and themps) The

In appendedtia, the principal exciting organism are enterococci and anharmoly tic streptococci, where-342

as in appendiceal abscess and in peritonitis following appendicitis they are frecal bacteria, chief of which are the bacillus coli and the gas gangrene breillus. The latter apparently acts only through its toxins. However, in all cases of peritonitis, regardless of the site of origin of the condition, there is a mixed in fection in which colon bacilli, enterococci, and gas gangrene breilli are by far the most numerous organisms. Therefore a polyvalent serum is necessary

In the studies reported the following four types of serum were used (1) a serum against the gasgangrene bacillus, the colon bacillus, and entero cocci, (2) a serum against the colon bacillus and enterococci, (3) a serum against the colon bacillus, and (4) a serum against enterococci. The investigators were not informed of the composition of a serum until its effect had been determined. The deaths which occurred when inappropriate serum was used indicate the necessity for a use of a triple serum. Among the cases studied there were six of progressing enterococcus peritonitis in which a serum against the colon bacillus or gas gangrene bacillus alone or the old polyvalent peritonitis serum would have been of no value.

The new polyvalent serum has a 65 per cent content of antitoxic colon bacillus serum and a 25 per cent content of enterococcus serum, and contains 10,000 Behring units of a potent gas bacillus antitoxin in 20 c cm. This is the serum of choice for all cases of peritoritis at the time of operation

To date, 240 cases of pentonitis have been treated with pentonitis serum and studied bacteriologically. There were 27 deaths, a mortality of 11 2 per cent. In addition, 51 patients were given the new polyvalent serum either for treatment or for prophylaxis. During operation, smears were made from the serosal suture of gastric anastomoses as well as from various peritoneal sutures. Pathogenic bacteria were found in 13 (25 per cent). Of 13 patients given prophylactic treatment, 2 died of causes other than peritonitis. Of the 51 patients given the serum for prophylaxis or treatment, 6 died, but 5 of the 6 succumbed to lung and heart complications.

Stich found that infection is present in 0.71 per cent of exploratory laparotomies. The new scrum should be used to prevent peritoritis from the penetration of bacteria through the intestinal walls. At the end of the operation, while the patient is still under anæsthesia, 20 c cm in from 500 to 1,000 c cm of a 5 per cent dextrose solution should be injected intravenously. For the treatment of peritonitis, the serum is given intraperitoneally.

(FRANZ) JACOB E KLEIN, M D

Mauro, M An Anatomicopathological and Clinical Contribution to the Study of Primary Tumors of the Mesentery (Contributo anatomopatologico e clinico allo studio dei tumori primitivi dei meso) Arch ital di chir, 1934, 38 161

Mauro reports three mesenteric tumors, discusses such neoplasms with special reference to fibromata, and tries to establish a characteristic syndrome for growths in the gastrohepatic ligament. He states that only about 350 primary tumors of the mesentery have been reported and some of them are doubtful. Sixty-five per cent of those reported were situated in the mesentery proper, usually that of the ileum, 25 per cent, in the great omentum, 25 per cent in the gastrohepatic omentum, 0 3 per cent cach in the gastrosplenic ligiment, the falciform ligament, and the mesentery of the duodenojejunal angle, 0 75 per cent near the ileocæcal junction, 1 8 per cent in the mesocolon, and 1 5 per cent each in the mesosigmoid and mesocæcum

The three tumors reported by the author were a lipoma, a cylindrical celled carcinoma, and a pure fibroma

The lipoma was a retroperitoneal tumor weighing 6 kgm which occurred in a man fifty-four years of age. It liad pushed forward between the layers of the mesocolon at the hepatic angle. Two special features of this case were an eosinophilia of 80 per cent and an intra abdominal fremitus which were unexplained and gave rise to the diagnosis of echinococcus cyst. In a review of the literature the author found no mention of these signs in cases of intra-abdominal lipoma.

The cylindric-celled carcinoma occurred in the mesentery of the ascending colon of a man forty six years of age. It was the size of a lemon. Mauro believes it originated from aberrant germs of the primitive intestine.

The pure fibroma occurred in the gastrohepatic omentum of a voman twenty-nine years of age who, four years previously, discovered a small painless lump under the left costal margin. During the past year the tumor has grown rapidly and the patient had suffered from gastric disturbances, substernal oppression, and occasional dysphagia Two months before operation she had a crisis of epigastric pain accompanied by profuse hamatemesis. At operation, a fibroma weighing 25 kgm and measuring 23 by 20 by 18 cm was found crowding down the lesser curvature of the stomach. The gastric cavity communicated with a zone of softening and ulceration, the size of an egg, within the tumor The tumor, together with the lesser curvature, was re moved with difficulty on account of the adhesions and vascularity The patient made an excellent recovery Mauro ascribes the operative success to the ample exposure by a left paramedian incision and resection of the left costochondral arch by Mever's method which yields complete control of the entire left hypochondrium

He states that only 50 cases of unmixed fibroma of the mesentery have been reported. Some of these growths arise from the fibrinous coat of the intestine, a fact of practical importance as it may lead the surgeon to believe that he is dealing with a sarcoma

Two forms of mescntcric fibromata can be distinguished one latent and the other causing digestive symptoms. The symptoms of the latter are extremely varied and not characteristic. The final stage is dominated by intestinal obstruction. The

disposes is very difficult. If not impossible. The prognose is always grave became by the time open tion is undertaken the tumor is usually voluntous or has produced such disturbances that the patient'

Including the author case, only 5 tumous of the gastrohepatic ligament (s of them fibruments) have participated on the best of these cases Meson like to reconstruct the syndrome of a famor in this location. He states that in its anteroposterior and section to seems one to second-course and grant will, tills the left hepatic lobe operard, and encroaches on the lower curvature of the stornach which is thereby cloopsted and displaced downward and to the left while the stormech as whole remains anchored at the cardia and pyloria. In its intered archaete at the castne water process the bepatic artery portal rein, and blie ducts although in none of the reported cases was there jaunder ascrite, or any reported cases was there panence ascites, or any hepatic disturbance. The cardia and adjacent part of the craophages are pressed anteropostenody or the conjunger are present accompanions; against the pullers of the displacement, and resulting secondary intercolution as in the author case This is the first report of the particular patho secrets of megasophagus Marro believes that the screen or megaranous and means between that the estinit the quebusian is betpointment and of

We the regard to the disgressia, Mauro says then on account of its rathy the least a not thought of and has never been recognized before operation The named disgrees in furnor or creat of the layer In fact, there is no energeisocal differentiation between the syndromes

The article is supplemented by roentgenograms and a bibliography H L MORE, HD

## GASTRO-INTESTINAL TRACT

Rammstadt, C. The Operative Trentment of Hy pertrophic Stenosis of the Priorie in Inferior pertupuse oursease or the riporus in interno.
(De operati Behanding der kypertrophachen
pylorentenose der foreglings) Ergels d Chr.

Rammatadt precades his discussion of the oper active treatment of hypertrophic pylone stenoes in aire accessed to appear provided by discussion of the reported and recul medience, the clinical pacture and symptoms, the pethological enatomy the ethology the disgrees, and the prognoses of the condition

In the diagnoss he trackes bittle importance to the demonstration of a tumor as this is very core-Heble H states that at least the differentiation be takes bate abeam and palestrobyte backer against near the management of abould not be based upon it. On the other hand, he values V-ray stamination, especially the technique of loss. This consents of making an exposure a th the patient prope with the left and clevated t bring the pylorus into more direct view and farcing the conthe pysous must more united and making control that medium into the pylone canal by palpaton The signs of hypertrophic pyloric stanons are An experimental process are a start of the shadow in front of the

pylorus, definite displacement of the permanently pysions, commit consisted cand toward both sides, absence of perintains in the canal, and failure of the duodenal bulb t open

The history of the operation is interesting It is known that the French always call the procedure the Fredet operation. Fredet stat performed the extra micros Heinerie Mikulica pricroplany ber kir report of it failed to make a satisfa impression on the medical profession and be later abandoned the method in favor of gastro-enterostomy terired the procedure, but retained the transcens eview of the old priorpisty which Kanech had warned against became of the danger that the muconal foods may spoul the results of the operation Thus, the greatest confusion prevalled among peris. ricking and surgeons when Rammiledt and per formed the simple extramocous division of the prioring in 10 I This method was devised on the sais of the chance observation, in Case in which the transverse settine could not be completed, that the longitudinal location gaped sufficiently without it

Medical treatment today still gropes with in entire resources with and a uthout abbasists services If is compelled to find the correct method for said case by experimentation as the differentiation be (wren mild and severs cases is uncertain (Dankin) It has the disadvantage of requiring considerable time (constraine trainent, arrenty size days, gentire trainent, buy days) and h endsature by intercurrent diseases. Repries to a questionable by married and a chick stressed that of the finances, 17 were due to an infection (grape, posements, offits, asphroprehits, prems, and

With the exception of several modifications not to be recommended the operative treatment of prioric streams today consists of the Reber Assumption of the Reber Operation first cases into Kammataut operation Operation and taken on favor after the war following the good results of sunced by Kinchner, Heils, and the author and after Ecisted well known report that the Schlosman Clinic operation was considered the

The indications for operation will always depend more or less upon the experience of the individual pediatricias The patient social dicensiases should be taken into connectation in cresy case at the danger associated with sarpical treatment in an greefer than that of the medical Contra-indications presented if the child is mornhand in several infections the decision to operate abould be made with cashen If the hypertrophic priore streets first develops in the third month operation may be delayed as the symptoms usually disappear in the

Rammetedt operates through increase the low increase favors creatization and postoperative berns. H. divides only the stope high nucline Lyens sharply. The deeper once he divides down to the mucess like blust pointed funcet is order t road injury t the disoderism Good vision with

perhaps the aid of magnifying spectacles (Kirschner) is necessary to assure division of all of the muscle The danger of hæmorrhage is the only vulnerable feature of the operation The author believes this danger to be less with blunt than with sharp dissection If the bleeding does not stop after two minutes of sponge pressure, fine suture-ligatures should be introduced or a bit of omentum applied. As a rule Rammstedt prefers ether anæsthesia, but in the presence of lung infections he uses chloroform anæsthesia While local anæsthesia is widely employed by others, Rammstedt apparently disapproves of it as usually it is inadequate and it favors shock Good pre operative treatment consists of infusions of a solution of glucose or sodium chloride, gastric lavage with sodium chloride solution or tea, and the prevention of chilling. An adequate number of experienced assistants and a special instrumentarium are required. The postoperative care by the pediatrician is often the more difficult task and should be carned out according to Eckstein's principles

Of 143 postoperative deaths, 58 were due to injuries present before the operation, 35 to grippe and pneumonia, and 50 to the operation (peritoneal infection, wound suppuration, prolapse of the viscera, postoperative hæmorrhage, injury from the anæs thetic, intestinal obstruction from volvulus, adhesions, or inadequate myotomy) It is by no means true that persistence of the explosive vomiting is always due to inadequate surgery, it may be of central origin (Eckstein, Adalin) or the result of too rapid reunion of the margins of the incision or the portio-like invagination of the pyloric muscle into the duodenum which was demonstrated histologically by Noetzel and cannot be reached with the knife without opening the duodenum. It may be due also to dilatation of the stomach with kinking of the duodenum over the hepatoduodenal ligament.

Comparison of the statistics for 1929 and 1933 which Rammstedt collected by questionnaires shows that the number of operations increased from 27 to only 31 per cent and the total number of deaths decreased from 18 to 10 7 per cent The medical mortality fell from 16 to 9 per cent and the surgical mortality from 22 5 per cent to 14 4 per cent The total number of treated cases of hypertrophic pylone stenosis increased from 1,824 in the period from 1919 to 1928 to 2,432 in the period from 1929 to This indicates that better diagnosis and earlier adequate therapy were the chief causes of the improvement

In order to compare the surgical and the medical treatment, the Duesseldorf Clinic carried out the well-known experiments in which, prior to 1928, 92 cases were treated by purely conservative measures with a mortality of 18 8 per cent and since that time 110 cases were treated by exclusively surgical treatment with a mortality of only 3 6 per cent. These results speak unconditionally for operative treatment even when they are compared with the good results obtained by Ibrahim (81 cases treated in the

period from 1929 to 1933 with a mortality of 6 per cent), especially as the shorter period required for treatment and the lower incidence of intercurrent diseases constitute further advantages of surgery (Sievers) Leo M Zimmerman, M D

The Functional Derangement of the Bonney, V Intestine That Follows Abdominal Operations Lancel, 1934, 227 1323

Operations that open the peritoneal cavity or, without opening it, involve the tissues in juxtaposition to it cause a derangement of the intestines characterized by general or regional cessation of intestinal movement and a disturbance of the mesenteric circulation As a result, the gas balancing mechanism is upset and gaseous distention ensues. If the motor and vasomotor phenomena are marked and prolonged and high grade distention occurs, the venous return from the intestinal vessels suffers additional retardation due to the stretching of the mesentery and the increase in the intraperitoneal pressure, the wall of the distended intestine becomes paralyzed, and kinking occurs at many points, producing a series of mechanical obstructions obstruction to the flow of blood through the mesenteric veins is followed by exudation into the lumen of the intestine which is most marked in the section where the venous congestion is greatest and the fluid exuded undergoes a change whereby it becomes

These events are not specifically related to operative injury or exposure of the intestine, as they may occur after operations which do not open the peritoneal cavity. This fact and the fact that the operative area is very commonly at a distance from the area in which the phenomena occur can be explained only by the hypothesis that the motor and vasomotor disturbances in the intestine, which are fundamental to the derangement, are caused by an agent generated somewhere in the tissues traumatized by the operation The evidence available suggests that the production of this agent has some relation to partial interference with the circulation

SAMUEL KAHN, M D

Gardner, C E, Jr, and Hart, D Anomalies of Intestinal Rotation as a Cause of Intestinal Obstruction Report of Two Personal Observations, Review of 103 Reported Cases Surg, 1934, 29 942

Gardner and Hart state that in the practice of abdominal surgery a clear conception of the various possibilities of derangement of internal rotation and fixation is essential. Following a description of the stages of normal intestinal rotation and the possible abnormalities in each, they report 2 cases of volvulus of the entire mesentery presenting symptoms of chronic duodenal obstruction and review 105 cases of intestinal obstruction incident to abnormalities of intestinal rotation which they collected from the literature Of the latter, 48 were cases of volvulus of the entire mesentery, 10, cases of obstruction of 1

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the transverse color accountary to inversed intation and it cases of obstruction of the modernm by the property of the entire to the supersum of the entire meeting may care symptom of acute incensus. destruction. In the insteady of cases the picture is that of scrite, chronic, or intermittent obstraction of tions to active, curvaines or internations toward cross or internations to international desirability of the control of the co the development of volving. The operative trainment for each type of obstruction is decreased.

## Eman, R.: The Denferr of finding Definition of the Actualy Bistoched Rowel in Late Low Interval and Obstruction. As J Sury on all Conference on the Conference of the Conferen Acting Distanced Howel in Late Low Annual Observaction, due J Surg. 934, 20 418.

Elman reports in detail four cracs in a bich death occurred puchlosis several pour cases at a most used of occurrer successory several occurs arise the fence of the fore intention of states that in the opinion of many supposes (the letter late that in the case of the fence) is a fence of the late of the cases is tabled pseudoton by the pseudot vector as some cases a rapid opospecial by the insuring series of the force contents from the obstructed intention. His tors content non ma connected messure in our concernations source that prepared the making the making their relief of intetinal obstruction are due to the lowering of the intra-

that contraction are due to the sowering or the mile infertinal pressure which, when high crough to fater fore with the blood flow through the fut, is an officiant battler between the feest contents and the oncome nativer persons for invest transcents and the circulation. He therefore recommends alon defiation circusteer the current retranscence saw common of the distincted box of to allow re-adjustment of the or the discounce owner to show re-superiment or the curculation and provent in energy of the rapid shadowing facilities and the energy in the rapid but the provent in the energy of the provent in the energy in the provent in the energy in the provent in the energy present in surely the power was desirted to an on me Patient recovered Heacork, C. II. Calcification to Intentinal Tuber

## culode to 1 Resilend to intention of the 3 M Following baied discussion of the role of calcium

in tribergalous, the uthor states that although cald in superconsequence when sealers the annual seasons suffer that the seasons of the seasons of the seasons suffer the seasons su tion, if a common in old inheritation for whether in infactions of other types it is rary Common atte of calcurous deposits in caberculous ford are de-Apparently calculation occurs are on perment of intestinal teleprocesses as well as partners season or intercent convertisant as act as in the abdominal lymph stands which are affected to the sometimes typical serious some are assessed and Although Hercock has been markle ! accountry American in the location, he has toned scattered author, were of capacitation as the water of a backers of the water of a backers of the water found scattered musery areas of contractance appear and for the execution of our classes in which the chimnel and confidenced darking the characteristic formalism of interesting the discovered of interesting the contractance of the contra statement the chargons of intention impressions. He is been tree crees in detail any numerous months are maintained in management of maintained informations.

Heatook acribes the infrequency of sort deposits to the fact that most cases of intentional tradeculous to be not that most case of minimal innerconces are of the decrease type without cases to the state that times the sufficient execution. He will of the internal and it before presents the the processor of the p want or the minutes are a very so to make the peritoneal auriace. The shadows in the ment Recognize are more suggestion of calculation at the Assessment are store suggester or confidence at the are and give use appearance to manacy on the properties to breeze, which, in some instances, here parameter traceries which, in some merances, nere become confluent Heacock reports one to show

the site of each deposits. As more of the cases report Life Rise of Sect. deposits. As hope of the case report and came to operation or satisfact pathological study.

Accept Harring, M.D.

Rankin, F W and Martin, W J of Direct of the Sensil Bowel Ass, 527 014, 00 Diverticulosis of the small bowel is much less fre quent and causes much less trouble than destina Diverticals tions and cause much see arouse take average, tests of the color. Directiculous of the small board Sets of the colon Directions of the small bone in that that that our rings in the doctorum and the direction of the small bone direction of the small bone o the bowel is involved supery must be considered as many manufactured in the considered supery many be considered as many manufactured as a considered superior as a conside

marketly Although surpcid intervention seasons of constituently carried inside a season ment appears to be the best proceeding as a risk A LINGUISETT MAINTAINING WE IN THE Joyce, T. M. der 5mg 934 00' 944 Toronto of the Small Interior.

While turnous of the amail bowel have als ye More trained at the season owner season of season timosa pasa pera hapapad taman a dama os secondos tentra dama os secondos tentra daman os secondos dam them have cled rather large series of case. The community and commend by the acceptance is used an and to residently law instances is the distance mode. too to treat the property of the street of cities of the c earling many types, Railord found the incidence of Menting many Upen, annual motor one management to be 41 per tent. Curmons of the doodman has been truch discussed of jute 11 as recognized that the majority of currocents of the small streets occur in the dandarium. On the base small intertine occur in the decidency. On the bane of their point of cripin, decidenal continuous in the bane drysteled in the point of the Position and the sample of the Position and th to account the amplitude of a rate to a court some two

The symptoms of tumors of the small interime And vitopions or tumous or ins man outcomes
are due charty to obstruction which frequently is pertial or intermittent. When intermediate occurs the symptoms of total contraction ratedly develop intersections of the small streets. Hereover, the sort of cases of times of the small streets. Hereover, the sort of cases of cases of the small streets and the same streets. can of case of times of the small intential. Hereof, they, either prise or encourage, is nothing for any portant of the chort and in the disposal of such that is a small of the chort and in the disposal of such that is a small of the chort and in the disposal of such that is a small of the small of the

Joyce reports nine cases of tumor of the small powed. In the first cases or country or one and any power in the cases or country or one and any power in the cases or country or one and any power in the cases or country or one and any power in the cases or country or one and any power in the cases or country or one and any power in the cases or country or one and any power in the cases or country or one and any power in the case of th and found in Merkel described growing accordance in the second reas sounce in Assess coveroceasing as one areas of the thumb in the hunch of the datal them. In the third, the tumor was being papellary advocan of tonty, me annor was being paperary accounts to be some in the fourth, after introducts and too payanam as no rooms, safer minates and soll in the first series and some sold in the series was series and series and series and series and series are series and series and series are series and series and series are series are series and series are series and series are paymag monitoring of the Affin at impressive admo-cial function. In the Affin at impressive admo-ciationing was found if the junction of the joints and the participant of the joints. carculations was noticed it the junction of th

carcinoma was resected and the patient was still well at the end of thirty months. In the seventh, there was an annular adenocarcinoma of the third part of the duodenum with abdominal metastases. In the eighth, an annular carcinoma developed in the wall of the jejunum about to cm beyond the ligament of Treitz and a large metastatic retroperitoneal tumor was found behind the third portion of the duodenum. In the minth, operation was refused and autopsy two months later revealed a primary carcinoma of the ileocæcal junction and bronchopneumonia.

Attention is called to the wide variation in the histories and the frequency with which the diagnosis is missed. The author states that the possibility of a tumor of the small intestine should be considered in cases of unexplained gastro intestinal

bleeding and intermittent obstruction

JOHN W NUZUM, M.D.

Steinberg, M. E., and Starr, P. H. The Factor of Spasm in the Etiology of Peptic Ulcers. Arch Surg., 1934, 29, 895

The authors cite the fact that Exalto, in 1911, was the first investigator to develop a technique which regularly produces chronic ulcers of the plynium following diversion of the duodenal contents. Winkelbauer modified the Exalto operation by stripping for a distance of from 15 to 25 cm the longitudinal and circular muscles of the jejunum which was anastomosed to the stomach. He reported that two dogs subjected to this procedure survived for thirty-four and seventy days respectively without developing the usual ulceration. The authors repeated Winkelbauer's experiments on a

larger series of animals

Of seven dogs subjected by the authors to the Exalto operation in which the jejunum is anastomosed end to end to the pyloric valve, all developed acute or chronic ulcers during a survival period of from five to sixty-nine days. With the use of these animals as controls, another group of dogs were subjected to the original duodenal diversion type of operation and to stripping of the longitudinal and circular muscle of the jejunum for a distance of about 10 cm. However, beginning at the pyloric valve, a narrow strip of muscle was left at the mesenteric horder for preservation of the blood supply. In addition, a small circular part of the duodenal muscle near the pyloric was left because the jejunum was anastomosed end to-end to the pyloric valve before the stripping was done.

Ten of the latter group of animals survived for from seven to seventy-six days. In none of the ten animals in which the jejunal musculature was stripped for three fourths of the circumference of the bowel was there any mucosal ulceration. However, two of the dogs had small chronic ulcers near the pylone valve where the musculature remained intact, one had a large ulcer where the muscle layer of the jejunum began its normal intact course, and one of the dogs with a small ulcer near the pylorus

had two small typical chronic ulcers in the mucosa where the muscle layer began its intact course

Of another series of dogs in which the small intestine was anastomosed to a Pavlov pouch and the circular and longitudinal muscle layers were stripped for a distance of 10 cm distal to the anastomosis, six survived for from eleven to one hundred and fifteen days. In none of these animals did an ulcer develop where the muscle was stripped

The findings of Boldyreff, Burget and Steinberg, Elman, and Cannon suggest that acid chyme of a certain concentration causes the intestinal muscles to contract. The contraction is supposed to hold the acid in one place until it is neutralized, thereby possibly causing localized trauma to the mucosa with resulting inflammation or ulceration. The inability of the intestine without muscle to contract and thereby cause retention of acid chyme is suggested as an explanation for the absence of ulceration in loops of bowel stripped of musculature

In view of the theories of von Bergmann, Cushing, and others on the relation of neurogenic factors to gastroduodenal ulcers, the authors believe that their findings may be of significance in the etiology and pathogenesis of gastroduodenal ulceration

SAMUEL J FOGELSON, M D

Kantor, J. L. Anomalies of the Colon Their Roentgen Diagnosis and Clinical Significance A Résumé of Ten Years' Study Radiology, 1934, 23 651

This article is based on 2,000 cases in which the large bowel was studied roentgenologically. The author divides anomalies of the colon into the following groups redundancy, non-rotation, hypodescent, hyperdescent, hyperation, and hyperaxion.

Redundancy of the colon was found in 18 per cent of the cases reviewed. The chief symptom of the majority of the patients with this condition was

constinution

Non rotation of the colon was found in only 0 2 per cent of the cases reviewed It was usually associated with non rotation of the entire intestinal tract

and was asymptomatic

Hypodescent of the execum was found in 6 per cent of the cases It was not characterized by a syndrome However, the author believes that it is associated with an increased tendency toward the

development of appendicitis

Hyperdescent of the cæcum was found in 18 per cent of the cases and appeared to be definitely associated with discomfort in the right lower quadrant of the abdomen, headache, and vomiting. The author describes in detail the roentgen technique by which it is possible to determine whether the cæcum is abnormally high or low.

Excessive motility (hypofixation) of the colon was found in 4 per cent and hyperfixation in 20 per cent of the cases reviewed. Kantor states that the former is frequently associated with a high position of the cæcum and is a prerequisite for volvulus and intussusception. Hypofixation of the cæcum alone is

associated with increased colonic imitability Excesare fration of the color is associated with a low position of the cocum, decolored bands, and firstabliity of the large bowel

Unless a colonic abnormality results in mechanical obstruction, treatment should be conservative and symptometic. T MAYORD JOYER, M D

Dall'Aqua, Y., and Valsechi, R. The Reentsen Appearance of the Muccas of the Colon in appendice of the Automa of the Con-Cattinuogensi teassituose (e-aspata) tamanagensi della natura del colora accia stati patologica). Radial

This article is sequel to a report on the mention appearance of the normal mucous membrane of the colon. The authors divide lesions of the colon into main groups, non-specific and specific cohina, and discuss each condition in these groups separately

## MON-SPECIAL COTTLE

Acute collies well made changes in the mucese. In this condition roonigen stampation short an focuses in the size and an bnormal disposition of the folds. The folds are apparently least infall traired, iene chartle, and not easily determed. The comma may or may not be eliminated completely Often there is a granulated, tapioca-like appearance of the surface

Acute colitie mile cerrene che per in il mucete In After county was server can just man manuscription condition there is great variation in the path-ological anatomy and X-ray findings. The bardum met be debouted in transvense truth any merking not ching or in arrangement may suggest the dra era in a chest of drawers, (really automed soil, lice, or button like formations Most of these forms toos are well shown in the roentgenograms. The toon are you moved in the bars of the pathological anatomy and the findings in the surport specimens

Chronic calitie In this condition there is recally evidence of atrophy of the mucoses with reduction in the use and number of the folds. The folds may show a longitudinal disposition. At times the colon has the Programme of an mort tube and 1 other times shows defects due to nodule-like hypertropine messes with occasionally thick transverse bands

### SPECIFIC COLITES

Takercal u In the alterative type of taberculosis of the colon the miscoss seems severely compromised, but as a rule only in the right color. The place sometimes remain somewhat conserved, but have lost their normal contour. In the fibrophasise exercises of the color the predominant As a submicional changes result in the terming of the all and reduction of the same of the himen The naturnal reloci is almost alway markedly altered or returnat (case is statum area) marketiny america in lost. Material passes out of the involved segment

Lies. In this condition there may be a fixed and rigid stenous of an inflammatory type Actions persus In this condition there are no characteristic changes

In addition the authors describe brief and show ph tomitimothems some of the gradiesh in creat of sy toemprougation and or the polypose, make

Is the discussion they emphasise especially the importance of interpreting the roentprograms on the basis of the physiology of the box e The article is followed by a rather extensive bible Cerephy

David, V. C. The Pathelogy and Trestment of

in, y the Patricianary and Principant of Blanding Polypoid Tumors of the Large Board

David classifier polypoid tumors of the large board as follows (1) adenomata, which are generally per dancelated but sometimes dat (1) peplionata or silions tamors (3) maltiple polypous lavalving the entire colon (4) inflammatory polypa, found in amorbic dyscolary and alcorative coults, and (1) carmomata grossly resembling flat adenomata or papillomata

The most vital question to be answered macorabe these tumors is whether the benign appearing single adenoma or pupillons is a premaignant growth The materiors is irrepeatly made that all security and habiliomate of the jarba poars and exenterly become malginant. This is based in part on the overskelming systems of the development of carcinoms to nearly all cases of maltiple pol as, in which the entire colon and recrum are studed with polyps of this type, and in part on the keep policial blocksings of Asia and Asia an basement membrane in papillocations famous which appear bennen This article is based on filteen papillomata,

conty-free preduced stated polype in adult, and more than alisen polype in children According to the histological criteria lind down by Ferriar only one boylb and authornit. Darki states that when any gross evidence of ulceraboo, invision or indination is noted on the surface or at the base of the potyp it ment be considered evidence of malignancy and the tumor should be treated as multiplient peoplesm. The most amportant histointergence condenses radicating mallgrancy is destroo tive invasion of the epithelium through the base ment membrane and muscularle nucose of the

The pedanculated type of adenoma, the pedicie of which consists of normal success stretched out by the tug of the tumor occurs at all go and in all portions of the colon Early malapant degreers ton of tumors of this type is rarely observed although the neopleasure re frequently found in the nome. The papallomata or villous temora, which are soft shorte life potential propietal pred casely and produce a large amount of meen became of the large numbers of goldet mucus scarcing cathe present. They come mustly in south the Biopay of superficial portions for the determination of melignancy is unreliable. If induration is present

at the base, the tumor should be treated as malignant and the bowel resected

It is generally agreed that when multiple polyposis is present and the colon is studded with polyps of all types, preliminary ileostomy followed by graded removal of the colon is advisable Occasionally, carcinomata grossly resembling large flat adenomata or papillomata are found in the colon In such cases a palpable induration is discovered at the base of the tumor and in the colon there may be a small area which shows puckering of the bowel wall It is at this point that invasion of the bowel wall is taking place. Viewed through the proctoscope the lesions may appear benign, but as a rule their surfaces are ulcerated. It is most important to remember that all of the polypoid bleeding tu mors of the rectum and colon must be regarded with suspicion as regards malignancy even though we know that many of them are benign and remain benign for relatively long periods of time

JOHN W NUZUM, M D

## Bowen, W H A Study of the Etiology of Appendicitis Guy's Hosp Rep, Lond, 1934, 84 489

The author bases his conclusions with regard to the etiology of acute appendicatis on clinical observations, pathological examination of surgically re moved appendices, and a review of the literature He believes that acute appendicitis starts as an infective catarrh, that an infective catarrh is the first stage of every case from those of early congestion of the mucous membrane to those of extreme degrees of gangrene The condition is not due to enterogenous or hæmatogenous sources The onset of acute appendicitis in the absence of a stercolith or obstruction is difficult to explain. The acute changes are probably the infective superadded changes grafted onto and obscuring the original catarrh The gravest manifestations of the disease result from the mechanically irritating action of a stercolith

EARL O LATIMER, M D

## McKissock, W Hæmaturia in Appendicitis Lancel, 1934, 227 1389

This article is based on fifty cases of appendicitis associated with hæmaturia. Seelig, in reporting three cases, attributed hæmaturia associated with appendicitis to the following factors: (i) toxic nephritis with circulation in the blood stream of toxins produced by the acute appendicitis, (2) direct involvement of the kidney or renal pelvis by an inflamed appendix lying in a retrocæcal position, (3) direct involvement of the ureter, and (4) direct involvement of the bladder by an inflamed appendix or a retrocæcal abscess

McKissock believes that appendicitis may be a symptom of a general disease of which acute nephritis also is a symptom or complication. One of his patients presented both acute appendicitis and nephritis as complications of a streptococcal infection of the throat. He states that the development of toxic nephritis as the direct result of acute appendictions.

dicitis still remains to be proved Confusion is most likely to arise in cases in which hæmaturia occurs in association with signs and symptoms otherwise suggestive of acute appendicitis. When red blood cells are found in the urine, a diagnosis of pyehtis or urinary colic might well be made and the presence of acute appendicitis overlooked McKissock reports a case in which the blood came from the ureter. He believes the bleeding might have been due to congestion of the veins of the ureter caused by the external pressure of an inflammatory exudate or to a ureteritis

#### Gile, J. F., and Bowler, J. P. The Management of Perforated Appendicitis J. Am. M. Ass., 1934, 103, 1750

This article is based on oor cases of perforated appendictis. The authors discuss the management of 3 types of the condition (1) gangrenous appendictis with local peritoritis, associated usually with early perforation, (2) appendiceal abscess, and (3) perforation with general peritoritis

In all of the cases reviewed the treatment was based on a program of immediate operation following a positive or reasonably well founded diagnosis of appendicitis The authors are convinced that immediate operation in early peritonitis may prevent the development of diffuse peritonitis which has a considerably higher mortality, that appendiceal abscess is a lesion which is originally, and remains throughout its duration, restricted to a localized process by the morphology of the right lower abdomen and does not call for urgent measures, and that late general peritonitis has an enormous mortality They state that, except in the cases in which the surgical risk is obviously entirely hopeless when the patient is first seen, there will always remain, in this group, cases in which it will be difficult to arrive at a decision regarding delay and pre-operative treatment J THORNWELL WITHERSPOON, M D

### Carlucci, G A Abdominal Wall Defects Following Appendicectomy Ann Surg , 1934, 100 1177

The author reviews 700 cases of appendicitis in which operation was performed through an incision in the right lower quadrant of the abdomen. All of the cases were followed for at least six months. In 83 (12 per cent) there was some postoperative abdominal defect. The defects ranged from simple weakness to hermia involving the entire length of the incision.

Defects were approximately twice as frequent following a split rectus incision as following the McBurney incision, and about twice as frequent in males as in females They had apparently no relation to postoperative respiratory complications

In cases of appendiceal abscess in which the abdominal wall was not sutured or was approximated only loosely, the incidence of incisional hernia was high However, fæcal fistulæ per se did not seem to produce defects Pregnancy and parturition, even in cases in which drainage was established, appar-

cally did not cause the Inclusion to give way. Defects were asset common in cases in which drains proven

were most common in case in which crimes present shillshed. A fairly large number occurred also in cases in which the wound became infected. the man found that a cukerner and even bernia disappear in time, and that bernis may develop

endorally a year or more after the operation. Piccinino, G

cinkon, G. Stierdin's Jump and Reperphentic Intentinal Triberculosis (Salto de Sterke, Orier Animatinal Triberculoule (Salto di River per promon a Coloni interionale sperplanta) Radial, mai Stat.

The author case his previous publication on inherences with special reference to the differential theremosa with sporal intersect to the numerous disposals of lexicus of the right color. If states displaces or sensors or the right choose at the that it must not be essumed that all forfore of the

tight colon is toberculous patients are due to He same the carculal features of paperblastic triperculose of the intentions and discusses relatives.

tahermores of the intestines and discusses intestions aim of the condition to permany long to pathological anatomy, and the intestigation of the pathological content of the intestigation of the inte open antony and the times there are made in the administration Year commutation after the administration of the barton by mouth mouthy shows aftered thing of the diseased portion. The bartons may jump over the mouth of the property of the same part of the diseased portion 1 be parison may jump over the completely or all (t only partially and irregularly When the opaque mechan is given and irregularly. When the openous medical is given a complete filter of the diseased point in given of the diseased point in given the diseased point in office with particular tradition and compress of the with advantage of the compression of the article legislature, are compared to the compression of the compressio

because tabaits are case of phisabetree tapes. execution reports are came or dynamical concerning of the intestings. The process began in the query produced the small inferriors apper and outstone or two researches are broaden outstone in the direct scope or the amout intercents which was extremely deformed and showed rightly, and stenous Io the occurs and successful color acts into tad for the occurs and success the occurs and success the occurs of the and suffering and associated cases were involved and the extend strangulation force careand sufficient an extension extension are con-

ing gradual reduction of the future. The doctoors were integrate filling was power and changes in the follow were such distinguished. Niche like forms, and the following toon were seasy organizationed. After the forms. In the shadows, rigidit of the walls of the taces to the actionway, righter or the water of the affected somes, and absence of muscular contractions

are cummon in discussion the differential disgresses, Partialno in measured the constraint measures, returns calls (tension especially to peopletins of the carrier cate recursor expectant to recovering a tree recovering to chronic ppendicitie

They are II. Simple Harmorrhagic Processes and Processes modellies dies and dean Site.

The author discusses sample harmorrhage proc this and proctongmouthin on the basis of twenty tion and procton/government on the trace or (wenty) as mostly inschers and affords to the young its ones of the in mentally distincts and another an only case to con-( early cases reviewed was ( acute, lebelle, and

the condition runs very protracted course and age a pronounced troopercy to recur personnessly than acute febrile coact, to which very protracted course and

the patient may be intoxicated, it does not affect the meral condition to any market together.

The chief sign is bleeding on defectation or inde pendent of defection

Routine physical examination discloses little ab-ROUME payant examination means are according to the lamperature is usually florant but for the case (two of the inext) tertainly because the in few cases (two or the targety reviewer), it is sensitive elevated in the early stage. The condition

somewhat chryston to the early stage. The common does not cause any considerable degree of anestic oes not came any considerable outree or ansatz.
The rectoscopic picture is characteristic, but el-A not received and not observed tree in case is can and emission are not occurred one on team which the condition has been present for many year. fact the condition has been persons for many years.
Afterways a ramination ductions in terms in than. Asteroscopic examination distances income mana-matica of the microsc with marked distances of the mation of the matter with married unitation of the later

blood practs and tree hemorrhages into the inter-granded trimes, psychally beneath the serface col-ticism. The inflammation does not largely the description of stricture and sociated to see The charges in probably of specific infections origin Its coone is beginn

a course is been an Treatment with revial infusions of a solution of patron has yielded good results, not ones actation of pairton man years at most results, not own be confined for a long time became of the market tendency of the disease to recay

Millian, R. T. C., and Morgan, C. N. The Sartical Assertions of the Anni Canal. Lancer \$44, 27

Although, today tacootheracy of least after our Anthonogia, though increasing or severe even page for the parties to peal after operation is the number of the treatment of each status in care tenture of the treatment of each status in the care and the ca coorning their six arisons tersoin why not gives coorning to man write observior is oa no mean sucommon there are anyone trainers and some carrier remain amorated at several cases can surgice as a second for charactering the main track of the forces. into the sust cases in others he has arred to sail the time that came in values or me arrow as more than the strong of the applicator and that can be call with safety and in their group be has seried in cut with anyty and in tearly group person circumstanting the amount of zenicle that same be preextracting the annual to continue that some to be arrive for traction and contractic for sures; therefore persons a detailed automical description of the muscles of the anal canal

the muscles of the anal came;
The external sphincter of the annual trainings. minche which, together the the paborectal porten of the states am forms a stored muscular charges or the evision an, forms a strong miscoust Orasio encurring the lengitudinal muscle of the rectain the continue the supplications makes or the retrieval the internal epidencies and end, below this level, the and instruct spinocter am and, near time area, the control of control of control of

these portions, the smeet of such may be so separation. These portions are the spherotra are reparator these portions are the sponters as externes subcutances, the sphincist and externes entering sommutation, the spenders are character and character and character and character are consistent and continued prosupermeant, and the sponeter an extrans per funds. The first and third pertures are assessed mancles not attached to the coctys. The sacced more an account to the cocrys the more portion is elliptical and thechael to the cocry portion is emptions and thanks in the tory, between the three portions he shroomening appraisance of the form of the form. her setts for time pursons or minoritation approximation of the longitudinal matter of the retime. The three divisions of the septs surround
measurable the sent many states the manufacture of the recam are three divisions of the septa services respectively the and cond alone, the longitudes! muscle, and the internal sphiacter and

cause, and the internal spousors are The sphilocter an external subcataness is an angula head of musics directly encircling the layer

portion of the anal canal It is easily seen and felt beneath the skin and lies in the same plane as the internal sphincter from the lower border of which it is separated by an annular band of fascia, the anal

ıntermuscular septum

The anal intermuscular septum, which is the termination of the longitudinal muscle of the anal canal, is attached to the skin of the anus in the region of the mucocutaneous junction and is of importance in disease and surgery of the anal canal The constant position of the main tracts and openings of fistulæ into the anal canal shows a relation to the septa of the longitudinal muscle Suppuration spreads along these tissue planes The attachment of the termination of the longitudinal muscle explains the presence of the sulcus in interno-external prolapsed and thrombosed piles

The sphincter am externus superficialis is an elliptical muscle lying between the subcutaneous sphincter below and the sphincter externus profundus It is the only layer of the sphincter ani externus attached to the coccyx It inserts into the

permeal body

The sphincter ani externus profundus consists of an annular band of muscle passing behind the rectum Its fibers cross above the rectum to the opposite side, where they are attached to the ascending ramus of the ischium, representing the transversus perinei muscle

The levator an muscle may be divided into three portions, the puborectalis, which is of most importance in rectal function, and the iliococcygeus and the pubococcygeus, which have no physiological in-

fluence upon the rectum

The puborectalis portion of the levator am anses from the symphysis under cover of the pubococcygeus Its fibers pass backward and downward around the lower and lateral aspect of the rectum, meeting the fibers of the opposite side behind the anal canal and forming a powerful sling to draw the anorectal junction toward the symphysis pubis Its lower border is intimately attached to the external sphincter ani profundus Between these sling fibers and the anal canal are the downward prolongations of the longitudinal muscle of the rectum and the sphincter am internus

The sphincter ani internus is a tubular muscle encircling almost the whole length of the anal canal It is a direct continuation of the circular muscle wall of the rectum This muscle is not the sole guardian of continence Continence depends upon the composite anal ring The inner surface of this ring is covered with mucous membrane which is separated from the muscle by the submucosa in which run the

hemorrhoidal vessels

Identification of these muscles can he made with the palpating finger To treat anal fistulæ successfully the surgeon must be skilled in palpating the anorectal ring The anorectal ring is a fibromuscular band composed of the upper portion of (1) the internal sphincter, (2) the longitudinal muscle, (3) the puborectalis, and (4) the external sphincter and

profundus muscles If this ring is cut, loss of continence will result, whereas when even the narrowest complete ring of muscle remains control is preserved All of the anal muscles below this ring may be divided in any manner without causing loss of control

An anal fistula is the contracted cavity of an abscess which has failed to heal completely by third intention There are usually an external opening, a main tract, and an internal opening Many variations in the form of multiple subcutaneous secondary tracts and openings occur The external opening is usually visible The main tract may be followed with a fine diagnostic probe The internal opening of a fistula is more easily discovered by light palpation of the anal mucosa than by inspection with the proctoscope For safe surgical treatment the relationship of the internal opening and main tract to the anorectal ring must be determined by palpation upon a probe passed along the tract. It should be noted whether they he above or below the ring

For the cure of an anal fistula it is necessary to convert the fistulous tract into an open flat wound by incising along the whole tract and removing the

overhanging edge

In the past, the main problem, the relationship of the fistulous tracts to the anal musculature, has been obscured by a complicated classification based on the shape and direction of the subcutaneous tracts The following classification is submitted as

being simple and practical

s Subcutaneous and submucous fistulæ These fistulæ are superficial to all the sphincter muscles In the treatment of the subcutaneous fistulæ the whole tract is incised and the overhanging skin edges are excised. In the treatment of the submucous fistulæ the mucosal roof is destroyed by strangulating ligatures because the often tortuous tracts he in close relation to the hæmorrhoidal plexus in the submucosa which may give rise to troublesome hæmorrhage if incision is done

2 Fistulæ with their main tracts entering the anal canal below the level of the anorectal ring

Low level anal fistulæ usually enter the anal canal along the anal intermuscular septum between the subcutaneous external sphincter and the lower border of the internal sphincter am There may be a submucous extension of the main tract The whole tract is laid open by incision or combined with strangulating ligatures and the subcutaneous external sphincter is divided

b High level anal fistulæ present a less common and more difficult problem. The main tract usually enters the anal canal in the posterior segment just below the anorectal ring. The position and relationship of the tract to the anorectal ring must be accurately established If the relationship of the tract to the anorectal ring cannot be determined defimtely the two-stage operation may be performed. However, it has no other advantage over the onestage operation If an intact part of the anorectal ring lies above the prohe inserted into the tract, section of the whole muscle bundle lving below the

INTERNATIONAL ABSTRACT OF SURGERY probe may be done This all probably sever a part of the deep, all of the superficial, and all of the subon two totals and on the superiorists and an in the correpooding related parts of the internal sphincter and possing reason parts or use meeting spanous and conglinding impacts. Thus a artifactory fat grams angurums mores and a summerory me grams that grams and is surgically obtainable and brount-

Union the relation of the anorectal ring has been Union too ituatasa or too sanctutas ang our monorara satabinhed previously light stueral sancthosis as to be preferred to spinal anesthesis became in the to be because to deposit assessment to be because to deposit the minimizer region in the state of the state o

anorectal ring is not palpable

Anal fatule with the main tract or more extrading Annual mention which are most difficult to head, are char-ful, type, which are most difficult to head, are charnri type when are most consent to mast, are trains acterized by an opening into the rectum above the accordance to the a anoretta ring on those of the school type, a name or issued above the anorettal ring but does not penetrate the rectum Is those of the third type there there are the tracking of the second type and is a same size time in secure or the school type and, in addition, there is an off-hoot opening to the rec tum below the anorectal ring

Anatomical considerations prevent the conversion of such drep tracts in the factborectal forms into a flat or seem over traces in the researchest need into a real wound which would anothe mening and transmission. The surgeon must be satisfied with guitting the tract positriorly toward the course. the formation of stimes by rapid side healing all of to-normalizat or summer by rapid sain peasing at or should be libertly removed so that a wide function shaped wound extending from the foor to the roof

The internal opening into the rectam in fattale of the first type should be disreparded. As the depth of the wound fills with granulation them; a would be come Later when the wound lavel is well below the anorestal ring the splinter mincles below the anotestal ring can be cut aftery Thea, the inner wall anticidating can be on analy and on one of or of the wound will also be suttered and bealing by second intention will be heatened. Routine pathological examination is arged for this type of areas or fistule as a sometimes reveals toberculoris as the LOWIS KIRKPATRICK, M.D.

## LIVER, GALL BLADDER, PASCREAS, By A.C and Bergh G 8

A. O. ROM DETEN G 5 Append Physiology of the Extrahepatic Billiary Tract. J Aw 1/ Au Applied Physiology of The gall bladder has three types of activity

absorption, accretion, and motor activity In the process of beorption the gall bladder concentrates the hepatic bile that enters I from four to ten times. In this process, the bele which is itschee as it leaves the hver is slightly actified

Because of its concratrance function, the gain product though small has latte capacity it is able to store the entire twenty four-boar output of bepatic bile

The gall bladder with acute inflammation of its traces does not concentrate or evacuate the blie

After subsidence of the acute inflammation, concerration and evacuation may be fraumed bet if fibrose traults, concentration does not occur.

Cholesteroels does not interfere with the coocertrains activity or evacuation of the sail blodde training materiety or expansation to the gast omotions and the smooth of with a moderate or extension. cholocystitu

When the gall bladder is normal it secretes a secwhen the gas of about so c can in a period of the agest at the second when it is accusely fast med twenty men noun; )) sen it is accuraty tanamed considerable quantity of Huspid and sometimes comporation quantity or ampen and as blood-theged field is formed by the mucose.

When the common duct is obstructed for free trains the common unit is because in our me trains to fourteen days green daid is found in the darts if the gall bladder is borness and white field if the gall bladder is functionies. White bile, which is of the freshest concern to surgrous, is found ander of the forces to the following conditions () common duct observe toon with functionless gall bladder () secretor of the later gainst pressure in the absence of total of struction, (3) taric beautiful and (4) high grade scenarios (1) than mynomia, in (4) aga gam accepting faterious It is associated (1) aga gam accepting bounds. In the accepting the store of generalized hepatitis In this condition decime generation in parties and the contract vaccount should be med as it favors the activity of the free

The motor activity of the gall bladder is of to types (1) rhythmic tonus changes and () tonic co-Open (a) raymonic mean compression ( ) mean interaction of the granulature of the gall backer as

It is obviously agusticant that the power of the normal gall blacker to contract is no greater then the secretory pressure of his secretory pressure of his secretory pressure of his secretory pressure of pall bladder contraction

thus far discovered is the hormone cholecy stoking This hormone may be extracted from the disclosure Distriction of

The most effective excitasts of hormore produc too are seeds and fate acting to the Opper part of the missing All fats are effective, but car you and cream appear to exert the most definite action Act most effective are protons, particularly those of mest Carbohydrates have no effect

Whether the pail bledder aill evacuate or not when the simulated depends on the tone of the sphineter of Oddi. The sphineter of Oddi can rede his pressure of 75 cm whereas the markets experience pressure of the normal gall bladder as go cm. Hence t is possible for a spartle sparacter or duodenza to percent gail bladder execution

The fact that the sponetar of Odds becomes is competent soon after removal of the gall bladder supports the Doyce Meitzer concept and about that the pull blacker has functional relation to the sphincter Section of the sphincter prevents distrithen Other facts pertaining to the physiology and functional pathology of the spirioter of Odd ray

I Any Procedure that increases the searcher fone of the dioxidential linking the flow of his incr

s. Any procedure that decreases the tops of the duodenum favors the flow of bile

3 Chemical irritation of the duodenum delays evacuation of the gall bladder

4 Atropin favors the flow of bile into the duo-

denum and pilocarpin stops the flow of bile

5 Morphine tends to inhibit the flow of bile into the duodenum because of its effect in increasing the tone of the circular muscle of the duodenum

6 Magnesium sulphate, magnesium oride, and

sodium sulphate favor the flow of bile

7 In cases of cholecystitis or duodenal ulcer the

sphincter may be bypertrophied

8 It is reported that some time after cholecys tectomy the sphincter may become competent or may undergo hypertrophy

9 In animals without a gall bladder the sphincter resistance is less than in animals with a gall bladder

Westphal has described two major types of motor

dysfunction of the biliary passages

I Hyperknetic (1) hypermobile, characterized by increased motility of the gall bladder and ampulla with rapid emptying, and (b) hypertonic, characterized by contraction of the gall bladder against spasm of the sphincter with spastic distention and colicky pain.

2 Atonic, characterized by relaxation or atony of the gall bladder with spasm of the sphincter of the papilla causing atonic distention of the gall bladder with a mild, continuous, heavy aching sensation

Prevention of gall-bladder disease may be aided by daily evacuation of the viscus by the proper intake of fat.

In acute biliary tract disease not demanding immediate operation sedation had proved effective Foods such as fats, meats, and acid fruit juices which stimulate gall-bladder activity should be withheld. The advisability of administering bile salts in cases of such disease to promote the formation of bile is to be seriously questioned

The evidence strongly suggests that the gall bladder is not benefited by drainage. If the mucosa is not permanently damaged, the scarring incident to drainage may interfere with normal emptying

It is now generally recognized that cholecystectomy is indicated definitely in cases of multiple small stones and cases of high-grade chronic cholecystitis with non visualization of the gall bladder Unless it can be shown that cholecystectomy bas a harmful effect, the operation will always be performed in borderline cases in which the gall bladder is suspected to be at fault.

HOWARD A McKnight, M D

Stewart, W H, and Illick, H E Sources of Error in Oral Cholecystography, with Suggested Methods of Correction Radiology, 1934, 23 663

A common cause of error in oral cholecystography is the failure of the patient to hold his breath while the film is being exposed. During the suspension of respiration holding the nose is often of assistance.

Antonucci demonstrated that oral cholecystography can be accelerated by increasing the glucose reserve of the body Sandstrom found that the

shadows are intensified when the dye is given in fractional doses. On the basis of these findings and their own experience the authors have developed what they call an "intensified method of cholecystography". This procedure is as follows

The afternoon preceding the test the patient is given tea with as much sugar as possible and one sweet cake Immediately after the evening meal be is given 3 5 gm of tetra-iodophenolphthalein. No extra fats are included in the evening meal. The following morning no food is allowed. The study of the gall bladder is begun sixteen hours after the administration of the dye. Foods that do not empty the gall bladder are then permitted Extra sugar is an important item. During the afternoon and evening, additional die is given in small doses with The following day, before breakfast, forty hours after the first dose of dye, an examination of the gall bladder is made for maximum intensity of the shadow Next, a fatty meal is given, and an hour later an examination is made to determine the contractility of the organ Sometimes the patient must be kept under observation for a number of hours as the gall bladder empties

The authors claim that stones and tumors are more easily recognized and faint shadows of cholesterol stones are visualized more readily by this method than by others. The bile ducts are clearly outlined in practically every case in which a gall-bladder shadow of normal intensity is obtained Fluoroscopic examination of the gall bladder is practical.

In interpreting the findings the authors point out that absence of a shadow is sometimes due to a duodenal ulcer and sometimes to the presence of a large renal tumor. Regardless of the cause of the jaundice, the oral test fails to outline the gall bladder satisfactorily if the interior index is over 30.

Benign growths, especially papillomata, are most likely to be seen along the margin of the gall-bladder shadow. They are seldom found in the lower portion. The defects may be multiple, but are discrete in contrast to those due to gall stones. Such negative areas may not appear until the gall bladder is partially empty. The defects due to adenomata are nearly always at the tip of the fundus and are more apt to be slit-like than round.

EARL O LATIMER, M D

Larrabee, R C Chronic Congestive Splenomegaly and Its Relationship to Banti's Disease Am J M Sc, 1934, 188 745

On the basis of a study of forty-seven cases of chronic congestive splenomegaly, the author expresses the view that in the majority of patients presenting the clinical picture of Banti's disease, i.e., splenomegaly with fibrosis, microcytic anæmia with leucopænia, and a late state with hæmorrhage and ascites, the condition is dependent upon various intra abdominal lesions obstructing the venous outflow of the spleen By far the most common of these lesions is hepatic cirrhosis of various types.

INTERNATIONAL ABSTRACT OF SURGERY Banti defined the disease which bears his name in name of manner as to exclude such such assure in man, and a manner as to exclude such cases, Lamber area a manner as to extraor such cases, seasons before a they should be designated by a distinctive The causative conditions, the treatment, and the and consulte communes, the tienment, the the fresh in the forty-serve cross reviewed are shown in the following table

With regard to the choice of cases for spicnectory the author quotes Mayo as stating that the criterion about the pathological condition of the spices sound be the pathological containing in the spaces and its effect on the blood rather than the under no in enert on the second interest than the ancier lying cause. Larrabce believes that the physician or surgeon confronted with a case need not trouble or surgrou communes when a case need not treamed with theoretical questions as to the nature numer; with theoretical governors as to the maintee of Beart disease. If the Hanti pre-operative picture to presented, if he has writing the patient long chough and studied kim carefully enough to exclude internia hemolytic Mandee, polycythemia, and certain other conditions, and if ordinary surgical considerations favor splenectomy be need not commerciations mayor spacecromy for mean for the facilities to operate because he believes that the neutrate to operate because its occurres tout one patient has an alcoholic cirrhosts or some other equally definite came of portal obstruction

Alcoholic carries Torc orricos Syphistic curior Contra of miord type Accombane liver ab-BOTTOMERS Adhenoos Comprostal heart absome hiv Prom of the spins Career molecure 14 Totale Ze. 23 HERET F TELESION M.D.

## GYNECOLOGY

#### UTERUS

Shaw, W F The Treatment of Genital Prolapse J Obsi & Gynac Brit Emp , 1934, 41 853

Shaw gives a hrief review of the anatomy of the pelvis with special emphasis on the uterine supports, the parametrium and the pelvic muscles. He states that prolapse of the pelvic organs is the result of laxity due to weakness or injury of the pelvic muscles and parametrium. Without such laxity, prolapse rannot occur.

Laxity of the muscular tissue about the urethra allows undue dilatation of the urethra with incontinence under strain. Laxity occurring more posteriorly results in cystocele, prolapse of the uterus, and rectocele, all of which are a part of the same condition

Among secondary conditions which in many cases hasten or determine the occurrence of genital prolapse are increased intra abdominal pressure, increased weight of the uterus pushing that organ down, and increased weight of the cervix pulling the uterus down

The author discusses the various operative methods of treating prolapse. As the cause of the condition is lack of support of the pelvic floor, an operation which strengthens this support seems rational Such an operation is colporrhaphy. As a rule both anterior and posterior colporrhaphy are combined with amputation of the cervix Shaw describes a method which has been used in Manchester by himself and others with slight modifications and excellent results since 1888. Of a series of 664 cases in which it was employed, a complete cure was obtained in 96 38 per cent, and of the cases in which a complete cure was not obtained, the symptoms persisting were severe enough to warrant further operative treatment in only o 75 per cent. The mortality was only o 43 per cent

In 10 3 per cent of the cases the operation failed to cure chronic pain in the lower abdomen and back, and in quite a large number it failed to control incontinence of urine on straining. Only 16 5 per cent of the patients showed any sign of recurrence after parturation. The results were as good in women who had passed the menopause as in young women, and equally good in nulliparm and multiparm. The operation does not cause trouble in subsequent lahors.

Troyd Bell, MD

Naujoks, H, and Hoffmann, H. The Radium Treatment of Benign Genital Hæmorrhages (Die Radiumbehandlung gutartiger Genitalblutungen) Zentralbl f Gynaek, 1934, p. 1922

The authors report the results obtained from intrauterine radium irradiation in 285 cases of henign

genital hæmorrhage treated at the Marhurg Clinic Among these were 252 cases of climacteric and preclimacteric bleeding, 19 cases of myomatous uterus, 6 cases of submucous myoma, and 8 cases in which the irradiation was done for tuberculous endometritis, blood diseases, juvenile menorrhagia, or sterilization

The technique was the usual technique except that, for drainage of the uterus during the irradiation, a gauze drain was fixed to the upper end of the radium capsule and led out of the uterus into the vagina

The disputed question as to whether it is possible to protect the ovaries from irradiation by tamponade of the posterior vault of the vagina or by pulling the uterus down (Jonen) is discussed

The dosage administered in the reviewed cases was relatively very high (from 2,000 to 3,000 mgm - hrs)

In general, the results were good Of 213 cases traced, the bleeding was definitely arrested in 207. The remaining 6 cases are discussed in detail. In all of the latter, submucous myomata were found, and in 1 of them the usual cystic glandular hyperplasia of the climacterium was also present. In 1 case of tuberculous endometritis the irradiation was successful, but in another it failed to arrest the bleeding. In the cases of 2 girls thirteen and nineteen years of age respectively who were treated for juvenile hleeding, the hleeding was not controlled although relatively high doses (2,400 and 1,200 mgm-hrs) were used

In discussing the dangers and complications of the treatment, the authors cite a case of death from emholism. They state that, in general, the climacteric symptoms in the reviewed cases were very mild. Relatively often, however, the patients complained of joint pains (climacteric arthropathy). In the cases of a large number of the patients the radium climacterium lasted for from several weeks to several months, and in the cases of a few, for several years.

The article is concluded with a theoretical discussion of the mode of action of radium irradiation—whether it consists of coagulation of the endometrium or arrest of ovarian function. The authors seem inclined to favor the first theory

In none of the cases reviewed were carcinomatous changes found later. However, it is erroneous to assume that intra-uterine radium irradiation is an effective prophylaxis against carcinoma of the body of the uterus. This assumption is proved incorrect by cases reported by Kohlanck, Philipp, and Werner in which carcinoma developed later in spite of such irradiation.

(F SIEGERT) JACOB E KLEIN, M D

Bolam, R. Prehypophyseal Hormonuris in Melli and Researches (See Tomonuris Considerations and Researches (See Tomonuris Considerations and Researches). and Researches (one organization proposation in transit malphi dell'attro consideration rionche) Res (tel. do press: 034. 7 9

The possible influence of the hypophysis cerebif and its bermones on malignant tumors has been the and the occurrence on management currons may occur una subject of dispute. The author reviews the more important reports of positive and negative clinical

Botaffi studied the urine of thirty-sine women some transet the time or thirty five of the subjects and similar cardinomats of the cards of the atoms and five had carchomata of the corpus or the va-

the Elde knobs of exbeliments a cas carded out in the first group, o c cm of grine acre injected in single dose into experimental animals and the single than the capetimental atomics and the profitalia of the nimals studied after forty-eight

born In the second group, repeated injections of com of urine were made into experimental animals twice a day and the profitalle of the animals currined twenty-four bours after the last injection examine investy-near nears give the max injection in the third and fourth groups, massive does of give acres injected into the experimental animals arion were injection into too experimental animals. In the fifth group, animals were injected with the spinel field instead of the urine of the women. In the case of one woman, c cm and in the cases of the cast of one woman, or the and in the cases of the woman, of or a come of spinal field were in

The results showed almost uniformly that a bormone of possibly hypophysical origin was not of experiments revealed only three mildly positive

Sampson, J.A. The Limitations and Dampers of the Intra Uterine Application of Radison in the Treatment of Carringess of the Body of A LOUIS ROSE, M.D. the Uterns. Am J Ohn & Grow 034, all play

The efficiency of the intra-orience profession of radium in the treatment of carrinoma of the body of the uterns depends upon the following factors (1) the sensitivity of the entire growth to radium irradia tion, ( ) the placing of the capsules in the aterior carity (s) the dosage, and (s) the premnity of the tarny (3) the growth, especially the invading por those which are at the greatest designee

From the standpoint of the intimate application of laquam to all of the moath cracs of carmoons of the body of the terus may be divided into the

Those in which the intimate polication of radium to all of the cardnoons can be accomplished

Those in which the intimate application of radium to all of the growth is possible but conditions may render to matter of chance Roomsenograms of others in which capsules were placed as in the radium treatment of carcinoms of the body of the uterus demonstrated that the latimate application of radium to ny or all of the growth may be tun or morning to my or an or the growns may be rendered assuccessful by faulty technique in the

placing of the capacies, large size of the oteriae bearing as one enhanced with one or one occurs consist enlarging the stering cavity large polype which like selminous grounds, may defect the where, like tanonucous promise, may cover use capsules and abled the growth from the indexe and bully carrisonate filling and distribute the

steries carity like submucosa superata shound sho that its or more capacles, in inciden formation, extending from the funder through the etraine Canith and just into the condens control cane encour carry was made and entering carries and entering is of the Y or bicornete type.

Those in which it is impossible to apply attains radium intimately to all of the growth Fallers t find cardinoms in cherk up consistent from at to ten weeks or even in twice that longth of time after radium (netiment does not rate our section or choons in areas not reached by the carette. It some

titers leads to a false sense | security and may be responsible for the patient's death In apit of its uncertainties, limitations, and den gers, the intra starine application of rathers is of great value in many cases of carcinoma of the body

Became of the impossibility of determining the exact spiration and extent of the many popularies or one unbounterly or necessaries or transmit and the fact that all of the curtisons as sometimes be removed surposity in cases in which radian irradiation would be unsuccessful, removal of the ownics, tubes, and antire misros with an attempt present the dissemination of the cardioose is indicated in the cases of patients who are good surgical risks

The intra-sterme procession of radium is had cated in haranteen proposit neith especially when the figures to street their southern times and not supplied. If is indicated sho in cases of carcinoms lock are

Hanly by P., and Ardeson, A. N. Radistics Trut ment of Carcinoma of the Carrix. An J. Emilyand 914, 12-545 EMARD L CORRELL, MD

Carcinoma of the cervix is now generally recognized as mathemat franco which can be reasonable well controlled in favorable cases by impatible therapy As parametrial involvement and prive metastane have already occurred to from 75 to 80 per cent of the cases hen the patient conce for treatment, the treatment ment include the para mention and petris Radium applied to the certical repon cannot be expected to be effective more than acpos cannot be expected to be entered brackette. such as roomigen franchiston is necessary for the more distract pelvic involvement. The authors advocat rocates tradictor before the polacitor of sadica in all but the surfect cases

Of twenty-ax carranomata reported by the author, tranty-fire were dismosed histologically at square mone chequinosi erroras and one as as admost cmome. All but one had extended well beyond the the treatment consisted of roseigns arabetion followed by radium irradiation.

The factors in the roentgen therapy were 200 ky, 30 ma, a 70-cm target-skin distance, filtration with 05 mm of copper and 2 mm of aluminum, and 4 fields (2 anterior and 2 posterior) measuring 10 by 15 cm. To each field from 2,000 to 2,400 r were delivered, 200 r heing given to an anterior portal and 200 r to a posterior portal on the same side daily From twenty to thirty days were required to deliver the irradiation. In only 10 per cent was there a rather marked skin reaction indicated by peeling The constitutional effect was entirely satisfactory. There was little or no hladder or rectal distress.

The roentgen treatments were followed by the application of radium to the cervical lesion for approximately 1,500 mc-hrs with filtration by 2 mm of hrass Immediately following this application, two radon capsules with filtration by 0.5 mm of gold and 2 mm of hlack ruhher were placed in the cervical and uterine canals for 3,000 mc-hrs

Biopsies were done during the course of the treatments. From three to six weeks were required for complete primary healing of the cervical lesions by roentgen therapy. Healing was more prompt when the higher dosage was employed. Of interest was the fact that even in the presence of clinical evidence of cure, biopsies were positive in the cases of patients who had not yet received radium treatment. The blood-vessel changes and fibrosis remained. Histological studies in a control case in which 700 r were given to 4 fields revealed more rapid changes, but less change in the tumor bed. Primary healing did not occur and specimens taken two weeks after the beginning of the treatment showed evidence of multiplying resistant cells.

Since regression of the lesion was evident clinically and histologically, the authors helieve that regression might reasonably be expected in the region of the parametrium. However, radium should be employed in the treatment of the primary lesion, and in cases of very early lesions should be used before the roentgen-ray cycle.

EREL E BARTH, M. D.

#### ADNEXAL AND PERIUTERINE CONDITIONS

Novak, E, and Brawner, J N, Jr Granulosa-Cell Tumors of the Ovary Am J Obst & Gynec, 1934, 28 637

This article is based on thirty-six cases of granulosa cell tumor of the ovary. The authors discuss the anatomy, histogenesis, and types of granulosa-cell tumors in detail

Five of the cases reviewed were those of children under the age of puberty. In all of these there were manifestations of precocious puberty. Menstruation occurred in all except one. Only six of the patients were definitely beyond the menopause, but ten others were in the fifth decade of life.

When the tumors occur before puberty they usually cause precocious menstruation When they occur during reproductive life they bring about disturbances analogous to those characteristic of hyperplasia of the endometrium (menstrual excess

with amenorrhœa at times) When they occur after the menopause they tend to produce a menstrual or pseudo-menstrual type of hleeding

A stimulating effect of the tumor on the structure and function of the breasts is noted. In children under the age of puherty and in women heyond the menopause striking effects on the secondary sex characteristics are apparent. The special hiological effects of these tumors are due to the fact that they secrete folliculin and, in some cases, also progestin

While it has been rather generally agreed that the malignancy of granulosa-cell carcinoma is much less than that of ovarian cancers in general, the authors are of the opinion that it is considerably greater than is generally helieved. In the reported cases which were adequately followed up, the incidence of clinical malignancy was 28 i per cent

As a rule the tumor can he readily demonstrated by himanual or abdominal examination, and in many cases it is noted by the patient herself. In women during the reproductive period of life the granulosal nature of the neoplasm is usually not suspected until operation is performed and sometimes not even then

The treatment of granulosa-cell tumors is essentially surgical. For the present it seems best to restrict radiotherapy to inoperable or recurrent tumors or to give it before or after operation in cases of tumors that are surgically removable

EDWARD L CORNELL, M D

#### EXTERNAL GENITALIA

Mercier, O Personal Technique for the Cure of Epispadias in Women Brit J Urol, 1934, 6 313

Mercier reports the case of a girl seventeen years of age who had suffered from incontinence of urine since birth. Examination showed that the urethra opened behind the symphysis and was only 1/6 in long. The labia majora, the lahia minora, and the chtoris were separated by a furrow. On each side of the furrow, at the end of the lahia minora, there was a stump which appeared to be the vestige of an incompletely formed sphincter. X-ray examination disclosed no separation of the puhic hones.

The operation performed was a combination of procedures It elongated and narrowed the urethra and restored the external sphincter The technique was a modification of that used by Marion elongate the incomplete urethra, a flap was dissected from the anterior wall of the vagina and each side of the flap was fixed to the corresponding side of the furrow Thus the internal part of the new canal was formed of the vaginal mucosa After the new urethra was shaped, the lateral stumps which seemed parts of an incomplete sphincter were sutured together in the median line as would he done for the cure of cystocele The lateral dissection was deeper and the sutures were placed as far as possible on each side The operation was completed by reconstruction of the lahia and clitoris The hladder was then drained hv means of a cystotomy No catheter was placed

in the new canal before the afteenth day. On that in the me cause occurs tube was removed and a soft catheter has introduced into the new meeting and fell until the suprapulse wound had besied conpletchy. Within three weeks after the operation the patient was able to prinate normally and to hold her urine perfectly There was no noctoria

BEARY W PICK M D

## MISCELLANGOUS

Trains Rao, G. Therma-Electrical Researches in Obstrictics and Gynecology (Exercise Section 1987) Ordered as a Company of the Company of the Company of C

The author reports studies in which he used the the action reports severe in a line of the section method of Benedict to determine the sec face temperature of the body. He describes the nechod and discusses in advantages. The measure ments were made at boot 35 standard points which

Determinations in the cases of 80 nomen showed that under physiological conditions the extensions time times payamagness community to the territory party from 30 to 34 depress. The variation seems to be dependent upon the subject anatom series to be department upon the seathers see an experience and the condition of the shall appear a state of the sta and cold spots on the surface of the body. The narm and coad spora out the surface or the coary spe warm points are found chiefly on the head and trunk, and

V tiations in the cutanoous temperature evidenced during different stages of the mentional cycle. In the cases of to normal rooms the temperature determinations were made 4 times day They showed that, in general, there is moderate Any source tree, in general, there is moverace seriation of the temperature during the second intermental stage which oscilly reaches its maximum the week before the occurrence of men struction and then returns ( a level which remains constant in the postmenstrual and first premenconstant in the positionard and an arrange street are a very difference between the highest and lower levels varied from 4 to 7 degree The maximum elevation occurred in the egice And maximum cavarance octubres in the the variation as from 9 to 8 degree

To entire stind of 200 sometime in satisfies states of bicknesses, it as a going that the carrieons reasons ce propuete, it was mean ones the consecous orn-perature is lower during the first half then during the persons buff of pregnancy. Whereas in the arry stages of programmy the mean temperature perceiscages or pregnancy are most compensate person mates the lower limits of pormal, in the last sponths nature the avert matter to measure, in the most assurance to tends to approximate the upper Hunts of normal and becomes higher as term is percached There and percented inguier as term is 15 vocation a secabdonen Measurements ; points in the breasts abound accommendate product in pregnant omen than a non-pregnant somen Just before once than a non-perguant women Just occurs and during labor there is a further rise in the tenspergure In the purportum there is gradeal inpensure in the partition there is graduate to crease during the first tackye hours which is followed then by progressive the until the second or third by spanical decrease in the second twelve hours and the by progressive the until the second or third

day of the pumperlam. From the third to the tank on the prosperious revenue are turns to take eighth day there is a gradual docume asid the

County are reactions.

Statement of he women with uterine fibrours ornets. revealed no variations from the normal In studies of 46 nomen with carchoons of the

aterns ft was found that the temperature is the ntering it was sound that the temperature in the condition is mostly within the normal limits but is common is meanly within the lower abdomen comm action stees on many on the severy assessment terms possing to the uterms and adness it may be nightly

In the cases of 33 nomen with overlan costs, the temperatures ere normal

In the cases of 54 nomen ith inflammations of At the tases or 34 notion for nucestantees or the pelvis and advers quite marked hyperthems the period and amount quite many appropriate was found. The portions of skin corresponding to was some vicers are armer than the size of other parts of the abdomen by an average of from

45 to 75 organs Studies of the extremities of 6 somes with thrombophicidis showed that the involved extress than the opposits bound extremity from the he

team to opposite persons currently from the se-glerally of the subjective symptoms and error before the objective appropriate and error La study of 55 new born intants weighing at least 500 gm the minimum crimeous imperators and ab 8 quarters and the maximum 17 48 quarter ans up o organic and the management 53 70 organic.
An average imperature of 3 5 degrees was transaction to first and accord days of his first transactions.

perature tends to full, but the decrease is into this s degree The fall is followed by gradual retern normal which is reached by about the truth or to sith day In prematers for exercises the sith day. 5,500 gm the imperature was found to be lower than in full-term infants, averaging from 25 to 37

degrees It varied like that of full term infants. Studies of the vaginal temperature were made in the cases of 1 normal nomen. The average variethe cases of a normal nonzer the average value tion is between 35 and 37 5 degrees. The varia-tions during the menatrual cycle correspond to the charges in the cutaneous temperature. Is procannot here h practically no change in the variety name and bout the capita month Variatons lach compare ith those in the cutmeon temperature then occur. In women like carcinome of the sterns the variant temperature averaged about 37 95 degrees In 5 women ath tribal pro-

## Whenev H. P. The Postnatal Development of the Genical Organa in the Albino Rat. J Oler & Gross Best East 934, 41 867

Wester reports experiments carried out on rath to determine the factors informing properties development discusses the difference thredes of sex differentiation, and cites Goldschaid? princaples to explain certain monstrodines

The experiments carried out on male rate showed that contration interfered with both the growth and the differentiation of the gians pens. The effects

became noticeable within a week, and the differences between normal and castrated males increased with age. Apart from the reduction of the growth rate and growth limit, the most obvious effects of castration were. (1) complete absence of the anterior process which, in the male, is formed during the first week of life, (2) incomplete differentiation followed by partial de differentiation of the corpus cavernosum glandis, and (3) incomplete differentiation of the integument.

The seminal vesicles depend for their growth and differentiation on the testicles While the testicular secretion is necessary for the normal development of the sex organs in the rat, this may not be true in

other species

The effects of castration in the male can be largely

neutralized by injections of androkinin

The author describes the normal prepubertal development of the uterus and vagina of the rat in detail

In his experiments the animals subjected to complete cophorectomy soon after birth continued their development. It is therefore evident that, in the female, the gonad is not required for prepubertal development, and it appears that somatic, and not gonadic, factors are responsible for early genital development.

In the female it is necessary to distinguish between two phases of extra-uterine genital development. The first phase is represented by infancy, during which differentiation of the genital organs is completed, and the second phase by puberty, when the effect of ovarian bormone becomes manifest

In the reported experiments, the administration of thelykinin to newborn female rats failed to produce acceleration of differentiation or pronounced growth

T Flore Bell, M D

Butenandt, A Recent Progress in the Study of Sex Hormones (Neuere Ergebnisse auf dem Gebiet der Sexualhormone) Wien klin Welinschr 1934, 2 897

This article is a review of what is known with considerable certainty to date regarding the physiology and chemistry of the sex hormones number of the bormones involved in the regulation of the normal sexual processes and the sites of their formation have not yet been determined beyond dispute At the present time only the bormones which act directly on the primary and secondary sex organs are called sex hormones. In contrast to the specific hormones of the female and male sex glands the gonadotropic hormones are characterized as sexually non specific That the gonadotropic factors are true substances has been proved by experiments with extracts of the anterior lobe of the hypophysis

The author rejects the theory that the gonadotropic bormones act as a motor for sexual function in the sense that puberty, menstruation, and the functions of the sex glands are initiated only through the production of such hormones. He believes it

possible that an accessory factor (likewise formed in the hypophysis) is necessary, that the combined action of this factor and the gonadotropic hormones induces puberty and its failure induces the climacterium

The problem as to the number of gonadotropic bormones is still unsolved. As the chemical study of the bypophysis is not yet completed, it appears likely that this question can be answered only after the effective gonadotropic substance has been chemically isolated in pure form. The highest degree of chemical purity thus far attained presents no grounds for separation of the bormone into Prolan A and Prolan B. It appears that, during pregnancy, the gonadotropic hormones are formed in the placenta.

The male sex hormone was first isolated in a chemically pure crystalline form (androsteron) by Butenandt and Tscherning Further studies are necessary to determine whether it consists of one or

several sex bormones

The follicular hormone has been isolated as a chemically simple substance in crystalline form by Butenandt, Doisy, Marrian, Laqueur, Collips, Jacobi, and others from the urine of pregnant women, the urine of the mare, the placenta, and even palm seeds Strangely enough, it always occurs in association with the male sex hormone. It is described as a growth-producing substance with a special influence on the female genital tract.

According to Butenandt, the hormone produced by the corpus luteum has been definitely recognized thus far only through its well-known effect on the

proliferating uterine mucosa

The interaction of the sex hormones through the interaction of the mid-brain, the hypophysis, the sex glands, and the uterus is explained with the aid of a table from the work of Schoeller The influence of the sex hormones on the cyclic change in the uterine mucosa through the successive action of the follicular and the corpus-luteum hormones seems to bave been definitely proved. To produce the picture of a menstrual cycle in the uterus of a castrated woman from 250,000 to 300,000 mouse umits of follicular bormone and from 30 to 50 rabbit units of corpus-luteum bormone are necessary However, this amount only seems to be large as 1,000,000 units of follicular hormone correspond to 20 mgm of the crystalline follicular bormone Onetenth  $\gamma$  of a standard preparation preserved in London is equal to I international unit of follicular Chemical purification of the follicular hormone renders possible exact dosage by weight

In the determination of the chemical formula of androsteron and the follicular bormone considerable progress has been made. The follicular hormone is so closely related to androsteron that it appears possible to transform androsteron into the follicular hormone by dehydration and splitting off an atom of carbon. Both hormones belong to the class of stearins. In dehydrated androsteron a substance intermediate between the female and the male

hormones has been found. Butenandt considers it nationers are been nounce in agreement consumers in possible that the action of these hormones might be precised by a slight change in the attracture of materials of a signit coming in the attractors in their chemical formule. He believes it possible also that they may be produced synthetically and their

at unrary consecratory retracted.

The chemical study of the corpus luteum hormone A set the market study or the curpos-interior nonmone a still in its initial stages. Buttenandt believes that a sum in its initial stages. Institution occurred tasts be is the first t have obtained a chemically simple, ctystalline substance with the effect of the corpuscrystatine societics with the enert or the corpo-lation bornooe. The chemical structure of this means somether and comments asserting to time substance suggests a close relationship between the corpus-isteum hormone and the other ser-gland POLIDOGET (H. SEEGRAND) YORK IA BELANK NI D

Donaddu F. P. The Influence of Thymectomy on Second of the transmission of a symmetric or the transmission of the Offspring (L'Indonesia Constitution) Comments activity and the Unipering (Comments of the stimulum come softs activity general collections). Re said de place \$14, \$1.000 and \$2.000 and \$2.000

The author reports his experimental studies re and summer reports and experimental studies re-stricting the relationship of the thyrmus gland to senctic activity expecially in the female

tactic activity topociatis at the received and one group of As one group or mase invocus on one group on female rabilits thymertomy was done prior ( the ere of puberty and in two corresponding groups it too

was done after maintify. The animals were then yes once sites matterly the amount was the traiting in an pressure communities with result ones and with normal books and does The offering and their young in turn acre treated similarly is and some young so come acres seems amounty as this way the author was able to study the effect of this way too author was also to almoy the effect of thymectomy on generic activity of fire consecutive

gramations of rabbits (albeity-eight animals) life generations of rabbits (alterty-right animals). He budge are recommended as follows: i. the generative string of the rabbits was greatly aftered following thymercomy periods; was greatly operation as greatly of the control of the type of periods. I. Fernandation was defined to impossible when the control of the control

both mating animals were thymectomized 3. Fecundation of thymectomized rabbis or ther thymectomized descendants was possible only

when these rabbits a ere mated with normal animals or the newborn of thymertonized ribbits than those of the controls, but their sometic describement are sufficie secretaried in the first few days of life to parallel that of the controls

5. The psychic development, immediate as as remote of the offspring of thymectonized rabbits ass entirely educi to that of the normal contrage Group C Prote MD

## ORSTETRICS

## PREGNANCY AND ITS COMPLICATIONS

Davy, L, and Sevringhaus, E L Analysis of Errors Inherent in Pregnancy Tests Based on the Aschheim-Zondek Reaction Am J Obst & Gyncc, 1934, 28 888

Of 425 cases in which tests for pregnancy were made by methods based on the Aschheim-Zondek reaction, the diagnosis was accurate in more than 90 per cent. Three modifications were employed either as individual methods or as concurrent tests with interpretation of the results as a single test.

Erroneous diagnoses due to limitations inherent in the methods were made in 8 per cent. Such systematic errors occurred in 3 92 per cent of the cases of pregnancy. Two were made in cases of very early pregnancies more consistently accurate results were obtained by a modification of the Inedman rabbit test or by an immature female rat test than by the Schneider immature rabbit test. Incorrect negatives were obtained in 9 pregnancies of more than one month's duration. In 7 of these there was definite fetal or maternal abnormality, in 1 there was no known abnormality, and in 1 the history was not reliable.

Faulty tests made in 12 7 per cent of the cases in which pregnancy was absent may be classed as sys tematic errors. Many of the cases with a false positive test can be correlated with known gynecological problems in which there are demonstrable endocrine disturbances Each of the cases testing incorrectly positive was studied from the standpoint of the clinical features manifested before and after the test and with respect to the ovarian picture in the injected animals Correlation of the laboratory and clinical findings suggested that ovarian dysfunction in the absence of pregnancy can be differentiated from pregnancy by the concurrent application of 2 or more tests to the urine. In cases of this type false positives have not occurred with the use of either the Schneider immature rabbit or the immature female rat as the test animal. The more highly sensitive Friedman rabbit is of value for the demon stration of gonad-stimulating substance in the urine of non pregnant women

EDWARD L CORNELL, M D

Astrinsky and Grinner Gonorrhæa and Pregnancy (Blenorrhagie et grossesse) Gynéa et obst, 1934, 30 430

The authors report their observations in 142 cases of gonorrhoea in women seen over a period of from two to five years. In 135 of these cases bacteriological proof of gonorrhoeal infection was obtained. In 7, the diagnosis was made clinically. During the

period of observation, 121 of the women had 1 pregnance, 18 had 2 pregnancies, and 3 had 3 pregnancies

In order to study the effect of gonorrhoa on fertility, conception pregnancy, and the puerperium, the authors divide the women into 3 groups as

Group 1, 45 women who conceived when infected Among these were 41 with involvement of only the lower genital tract and 4 with ascending infection of long duration

Group 2, 52 women who became infected during pregnancy, including 21 who were infected during the first half and 31 who were infected during the second half of pregnancy

Group 3, 45 women who conceived after recovers from the infection, including 28 with involvement of only the lower genital tract and 17 with involvement of the adnexa

From their observations in these cases the authors conclude that gonorrheal infection of the cervix and adnexa does not exclude the possibility of conception. Pregnancy is capable of activating latent gonorrheal infection. Involvement of the internal genitalia, vagina, and cervix during pregnancy is accompanied by more intense clinical symptoms than gonorrheal infection in the absence of pregnancy. The incidence of complications during pregnancy or the puerperium is highest when conception occurs in the presence of, or following ascending gonorrheal infection. The chief complications are early abortion and postpartum hamorrhage. The presence of gonococci in the lochia is not necessarily accompanied by fever

Puerperal disorders occurred in 11 5 per cent of the cases reviewed In 7 per cent of the latter they occurred early, and in 4 5 per cent late, in the puerperium The incidence of puerperal complications was highest (46 per cent) in cases in which the in fection occurred during the second half of pregnancy In 67 per cent of such cases the gonococcus could be demonstrated Induced abortion accounted for 30 2 per cent of the puerperal complications The authors believe that to prevent ascending infection following delivery or abortion, it is necessary to obtain an abundant lochial discharge

The diagnosis of gonorrhoca during pregnancy and the puerperium is made in the same way as in the absence of pregnancy. As a supplementary diagnostic procedure it is desirable to make a bacteriological examination of secretions adherent to the

supracibary ridges of the infant.

The treatment of gonorrhoa during pregnancy requires the use of the entire therapeutic armamentarium with due regard for the pregnancy Vaccination is indicated for both the treatment and the

prophylaxis of pomperal infection. Crede a method proparyies to proper mechanic there a manuscript of proparyiests does not exclude the possibility of or lacquery state once and cacture can be breast. T discover the bessers of the fonococcus quanta beckenich it is necessary t use modern methods of investigation or between or one generators among bacterary in is all an ecological and obstanced examinations The close cooperation of all maternal actions and Inc. Core troperation or an insternal acture and veneral clinics is accessive if the fight against good orthog during preparacy is to be successful. Effect tire prophylars requires edecation of the public

Stander H. J., and Cadden, J. F.; Blood Chemistry In Pre-Eclampsia and Eclampsia. Am J. Okal

Fre eclampels and eclampels are regarded as the

same disease Frequently repeated chemical studies of the blood in the cases of 106 s omen with ectampof the owner in the cases of 100 women with cranques and 40 with pre-criampsia aboved that the chemical character of the blood is an important foder of the severity of the disease ad of the treat

The non-protein altrogen content of the blood remains within normal limits in ectampsis and pre eclampais except when involvement of the kidneys late in the disease causes it to increase The blood the utilised tomers los se in potant beforeso. The ratio between area miragen and non-protein attogen is about 4 as compared with 5 in nor

The ann acid of the blood shows as increase in eriampas and pre-criampris, indicating a disturb nee in its destruction in the liver. The uric and content of the blood may be regarded as a fairly reliable index of the arventy of the disease

The blood super is not greatly disturbed, but occasionally an eclamptic coordision is followed by definite hypergycemia This may be due to muscular activity

The sikah reserve is often greatly decreased, sometimes even to the level of trae acklosis. The carbon diordie combining power is the most reliable carpon moune communing power as any many remains and most early determined index of the necessity of treatment for acronus

The blood chlordes are not markedly decreased except in an occasional case with marked ordense

The thonesne content of the blood remains within normal limits The glutathone content ho remains normal ax

cept in patients th low blood hamoglobus readings The increase in the unc acid of the blood in ectampets and pre-ectampate cannot be accounted for by a increase in thousand The hypergiverms sometimes observed in the convulsive stage of poers to be true hypergiveense ad not due to glutathione or thioneline

Emile, L. A. The influence of Freemancy on Turner EDWARD L CORVELL M D September of the action of the second september of the second september of the second second

In the investigation reported, Emge studied the arough behavior during pregnancy of adenofibro

mata, fibromata, and fibromercomata originally de men, successia, sun successormens originary or fired from a spontaneous adenochrosis in knake tires are a special succession of the same and the same a appear as single tumors and, because of their steady appear as angle minors and, occases or over many and inflorm growth, are especially suitable for sach studies. The abrons counts do not neturinize but actions. Any normal countries on the recommence of the removal. This is typical of many recur rapidly after removal. Ann is typical to start framplantable succomits of the water set. From the experimental studies to date the author con-

chudes that the growth rate of benign and malignasi tunous, although responsive to the general systemic influence of pregnancy as expensed by crtokeled changes, is not infinenced beyond varietion in he

cranges, is not manuscritti organia valuation in or dividual growth tendencies.

The behavior of prophestic times during preparacy is debandent about combies set of gettors gibinst expension upon company as or many superports the belief that neroplastic times possenses definis and inherent growth tendencies which are controlled by a proter tive mechanism peculiar to body concomy There fore, regardless of the type of the tamor the growth to a separate upon a Critain balance between these two factors A disturbance of the balance will be manufacted by other an accretion tion or a retardation of the growth tendencies of the acoptantic these A knowledge of the primary growth inndencies of a given neophase is therefore accessary for correct interpretation of the growth rate of that maner du

From clinical and experimental observations Empr draws the following conclusions

The Influence of pregnancy on the behavior of heoplastic times depends upon complex set of

The growth rate of peoplesons a laborent, but the controlling mechanism is still unknown Chricil

exidence sufficient that backonich leader bacteriae mechanism minst tumor growth. 5 heophstic trace takes part in the local and

J. Desputate times takes part in the area are remote functions incident to preparaty the obtained result depending upon the length of the generation! Period These chapter are of temporary same The extent of favoration of bouten neophasm de pends upon the relation of the peoplems to the generalive organs, particularly the aterms

4 Meaniatic times sensitive to hormonal stimes may exhibit increased activity during pregramy 5 Physical changes in benign timors during scriation are not necessarily expressions of growth

6 It is not proved that pregnancy lavors the isception of malignancy or the malignant degenerates

7 Experimental syntence substantiates chiscal

findings in general and permits the conclusion that pregnancy as a role does not influence the growth rats or the are of neoplasms beyond certain me tions, the most frequent of which is retards non. In many materies the growth rate remains conflicted Only occanoually is an acceleration observed. At the termination of gratation peoplesses assume the primary growth rate PREASO L. CORRECT, M.D.

### LABOR AND ITS COMPLICATIONS

Caldwell, W E, Moloy, H C, and D'Esopo, D A A Roentgenological Study of the Mechanism of Engagement of the Fetal Head Am J Obst & Gyr cc , 1934, 28 824

Roentgen examination with the use of the pre cision stereoscope constitutes a distinct refinement in obstetrical diagnosis during labor. This method is rapid, accurate, and practical. In all cases of atypical labor a roentgenological examination should be made before operative interference is undertaken

The authors present statistics on positions of the fetal head at the inlet in relation to the type of

pelvis

Positions at the inlet may be divided into three groups (1) primary posterior positions, (2) primary transverse positions, and (3) primary anterior positions, including the direct occiput anterior position

The transverse parietal position is the common

position at the onset of labor

The engagement of the fetal head is described This is the reverse of the principle known as "synchtism" which heretofore was regarded as the com-

mon method of engagement.

Posterior rotation is assisted by the angle assumed by the fetal axis along the slope of the uterine wall toward the inclined inlet. The uterine contractions impart a spiral movement to the body along these two inclined planes, and rotation takes place forward along the line of least resistance

The attitude of the fetus at rest and the changes secondary to the onset of labor are described

EDWARD L CORNELL, M D

#### PUERPERIUM AND ITS COMPLICATIONS

Salvini, A A Contribution to the Clinical Study and Therapy of Late Puerperal Hæmorrhage (Contributo alla clinica e alla terapia delle emorragie tardive del puerperio) Riv ital di ginec, 1934, 17 238

The most important complications in the six week puerperal period are infection and hamorrhage. The exact time in the puerperium at which hæmorrhage may be classified as late has not been determined The term "late" has been used in the literature for hæmorrhages occurring at any time between the first day and the end of two neeks

Among the causes of late puerperal hæmorrhage are (1) the retention of fragments of placenta with the subsequent formation of so called placental polypi consisting of more or less modified placental tissue covered with coagulated blood and usually pedunculated but sometimes having a broad base, (2) the retention of fragments of decidua as the result of separation of the placenta in a false plane, (3) local uterine infection (4) secondary atony of the uterus, (5) malignant tumors, (6) fibromata or fibromyomata, (7) unrecognized lacerations in the lower uterine segment, (8) vaginal ulcerations, (9) disease of the blood vessels, and (10) systemic

diseases, including blood dyscrasias and other conditions Of these, the first three are by far the most

common and important

The author reviews the chincal records of fifteen cases of late puerperal hæmorrhage Seven of the women were primipare. In twelve cases labor was spontaneous, in two cases, forceps were applied, and in one case, version was done. The time of appearance of the hæmorrhage ranged from seven to thirty days after delivery In all of the cases the hemorrhage endangered life. In eleven, the cause was retention of placental tissue. In two of these the placenta had begun to undergo putrefactive changes In two cases the hemorrhage was due to subinvolution of the uterus, in one case to retention of decidua in the stage of hyalin degeneration, and in one case to a septicopy emia

The author reviews the literature on methods of treatment. He emphasizes the importance of preventing late puerperal hamorrhages by correct management of labor and the early puerpenum and immediate revision of the uterine cavity when the expelled placenta appears to be incomplete believes that in cases of retention of placental tissue in which the tissue is very lightly attached to the uterine wall and the cervix is dilated, it is best to remove the residuum even in the presence of fever This must be done with minimal trauma. If the curettage is negative, medical therapy should be instituted If hamorrhage then does not cease or is repeated, and especially if the temperature tends to remain elevated, abdominal hysterecomy should be done before the general condition becomes too serious A Louis Rosi, M D

Watson, B P Practical Measures in the Prevention and Treatment of Puerperal Sepsis J 1m M Ass, 1934, 103 1745

In evogenous infection of the uterus the most common invading organism is the streptococcus and the most virulent streptococcus is the hamolytic streptococcus The organisms are introduced directly by the hands or enter the body by way of nasal and throat infection. Of importance in the prevention of such infection are asepsis during vaginal examinations and delivery, the prevention of contact between the patient and a carrier, the use of masks and the isolation of cases of infection Without proper control and without the proper structural arrangement, an obstetrical hospital may be less safe for delivery than even the poorest home

The vagina of every pregnant woman and of every woman in labor contains organisms which ascend into the cervix and lower uterine segment in the later stages of labor and the early puerpenum The normal puerperal uterine cavity is heavily invaded by the third day after delivery and does not become sterile until the tenth or twelfth day Most of the organisms are not pathogens Under certain circumstances, however, the pathogens present become virulent and cause infection prevention of such an occurrence requires elimina

tion of the organisms from the scultal tract and the avoidance of conditions rendering them virulent The results of the treatment of puerperal infection depend chiefly on the vitulence and invasiveness of the injecting organisms and i a least extent on the tissue reaction and the patient a restrance. In the tension reactions and the parameter executants and the author' management of cases of portparal

ine autor. Insusgement or case or protection the patient is hostited, a thorough physical examination is made, an ke pack is proved to the abdomen, 5 gr of quining sulphate and a small cocens are administered daily and a light but nour chems are aumonatoric today and a ugot tot note shing deet is given. N. pelvic examination is made ther than inspection of any perioset incerations ther man imperious or any perment incentions that may have occurred and the removal of a culture from within the vaginal introling. The picture is not

Ampunites ment the accounts

Persistence of ferer is due to ( ) persistence of the infection in the uteres ( ) extension of the infec tion to the petric cellular mane. (1) extension of the infection to the petric vens (septic thrombophts microsis to the person of the blood stream. In the uthors treatment of cases, ith perstatent ferer a transfusion of 500 Cm of blood is given and may be repeated every three or four days

Thrombophicutis is manifested by contovertebral induced a foctoring temperature, a high incocyte cours, and challs In cases to which an embolus is formed, marked dyspaces and orthopoces country. In severe cases, the use of an oxygen tank is

The operative treatment of pumperal infection is heated. The author opens pairs's baces, but does not explore massive cellulater crods tee and there is definit evidence of softness and flortuation H

states that most celluttic crudates become absorbed J TROMA WELL WITHERSPOOK, M D Secdakoff M Q

dukoff M O The Modern Management of Puerperal Ferer (La thérapeutique actuelle de la favra paerpérale) G adadage 914, 13 6 In spite of greater facilities for adequate obstetri-

cal care in Rinner, the auteenth anniversary of the cat care to account the second fection. Moreover there is no single therapeutic measure which provides a sure and constantly effecmeasure much provides a sure and commands energive weapon against the condition. The mortality ranges from 3 to a per cent. At Moncow in 63 the state of the s t was 5 per cent an 95 course an epicemer of grappe, t ross to 36 per cent and a 95 t fell to 3.7 per cent Since from 15 to 8 per cent of those ano die ara homes apos are busionsh iu

good health purporal fever is an important factor in good season; prospers are an amportant serve in of postpartum infection proves the necessity of increasing efforts to overcome the menace and mortality of peritorita ranges from 95 to 100 per more that of septements in 7 per cent and that of partic meetions may be as high as per cent and that of partic meetions may be as high as per cent.

The author discusses the etiology and pathology of puerperal septicernia emphasing that pre-

vention (the avoidance of traums, to the times, strict reacast the average of training of the training as the training as the most important approach to ard the sactions to use more important approach to said the common types. The sator entire to the constants types the acres reastance (expectally after hemorrhage) The cr act dusmosts of autogenous infection as not alway possible. In epidemics, account factors play a position in characteristics are most common in automa pay a part opnomina are many common in assessment and agriculture of the state of the sta whater when a tuning a present of the period of incubation of the amone to manufacture the persons from freely hours to tactive days after abortion or deby cry. It is closely schild ! the organic resistance and the state of the reticulo endothenal and servous systems as well as to the viruleace of the laveding micro-cruzing Under hormal conditions, local tiense formative Other pormas treatment, acts these names and all the characteristic of the overy may play

Exact diagnosis by clinical, bacteriological, and biological methods must precede any attempt at treatment. The firstion abscess of Faucher (Philippe Roser Inaction) is of prognostic value Failure of the firstion becree indicates failure of the body to react the presence of a severe infection and as a rate a latal collection However the Pathops Roar reaction must not be refler upon too implicitly as during the course of an intertion various reactions may be obtained. The feet given only as stendard may be obtained and the trace gives very an atom as to the state of the organism and the force some as to the state to the against and the thord state of the blond at the given moment. One of the best indications of the prognoss is the or the test indicates or the proposes a the nemocrate count of 5,000 is favorable says A shift to the right (Schilling) le decrease in the samogloban, socopenia, monocyrota, and iyamemogram, soccoperns, monocymus, and op-phopsenia, indicates an unfavorable propose Clinical andings indicating an unfavorable pronosts are an increasing acidosts and a fellog blood

The management of purperal infections lavolves ( ) prophylada, i () prophylada | protection of the organization infections () destruction of the bettern point interaction () occurrence or the natural arready parcent if time permits, and () sticration of the organic resistance to infection. The organic resistance to infection may be increased by

Shock therapy consisting of the intervences administration of some form of protein or some other substance. The injection of from no to monor of the injection of from the injection of the injection o to per cent solution of calcium chlorde in doubled ter or a 30 per cent solution of siver natrate in alcohol usually causes intense shock by producing precious t various points of the vescular endothelium a th the liberation of albuminoids and casamenam a in the interation of attourances and colloids which appletinate and neutralize bacter sotorins. If shock fails to occur the progress a pour as the sympathetic nervous system is afacted by the torum and blocks go of the return conducted system has taken place. In the cases of patients in poor condition, shock treatment should be given arth cention. In cases of endocardita, separate section in proand metastatic pneumonia shock tree tenent is contra2 Immunization by the administration of streptococcic, staphylococcic, diplococcic, or polyvalent sera. The author combines the administration of urotropin with serotherapy at two-day intervals as experiments on animals have demonstrated that urotropin agglutinates and neutralizes endotoxins. Vaccines are employed only in chronic cases or cases of low grade infection. Serdukoff prefers autogenous vaccines.

3 Stimulation therapy (Reiztherapie) Serdukoff prefers autohæmotherapy combined with the ad-

ministration of urotropin

The specific treatment outlined by the author is as follows

r Severe forms (a) intravenous injection of alcohol, umbilical cord serum, (b) repeated small blood transfusions, (c) roentgen therapy, (d) the fixation abscess of Fochier

2 Moderately severe forms (a) the intravenous injection of a r per cent solution of calcium chloride, distilled water, a solution of silver nitrate, (b) the intravenous injection of urotropin, (c) the use of methylene blue and calomel, (d) umbilical cord serum, normal horse serum, polyvalent serum injected subcutaneously, (e) blood transfusion, autohæmotherapy, fixation abscess

3 Low grade infections urotropin injected intravenously, umbilical cord serum, horse serum, blood transfusion, autovaccination, incision and

dramage of abscesses

Serdukoff admits that this scheme of treatment suggests polypragmatism, but states that an experience of eighteen years has proved it to be of value. He emphasizes the importance of differentiating between acute, subacute, and chronic cases in the selection of the treatment. All possible precautions must be taken to avoid destroying the natural defense mechanisms. Bed rest is essential Serdukoff emphasizes especially his method of administering umbilical cord serum (seroplacentin)

which is said to contain large quantities of electrolytes, natural antigens, and hormones

HAROLD C MACK, M D

Schlink, H H The Treatment of Surgical Injuries Following Childbirth Med J Australia, 1934, 2 707

The author reviews the anatomy of the pelvic floor and describes the operations for the repair of surgical injuries following childbirth which he regards as the methods of choice

He believes that in the repair of the lacerated perineum the factor of chief importance is union of the levatores am, particularly their pubococcygeal fibers. He describes the method which he uses for exposure of these muscles and their union in the midline between the rectum and vagina. His method is the simplest and most direct possible. In repair of the ruptured sphincter am, he follows the same steps with the addition of sufficient exposure of the ends of the retracted sphincter and their union by means of a fine chromic catgut suture and several plain gut sutures. He emphasizes that union of the levatores need not be carried very far up to secure a good physiological result.

For the correction of retrodisplacement of the uterus, Schlink rejects all methods except those which have as their basis the shortening and fixation of the round ligaments. Of the latter, he uses only those in which the stronger uterine ends are employed for support. His choice of operations is (1) the Alexander-Adams operation, (2) the Alexander laparotomy, and (3) the Gilliam-Bonney operation,

ation

For the correction of prolapse of the uterus, Schlink prefers the Donald-Fothergill operation. He describes this operation in detail. When removal of the uterus is indicated by some condition other than the prolapse alone, he prefers the Goffe-Mavo operation. Henry S Acken, Jr., M D.

# GENITO-URINARY SURGERY

## ADRENAL, KIDNEY AND UREYER

Ragnotti E.: Considerations and Researches on pour art communications and representative to the Pathological Strikeance and the Experithe Pathological Standards and the Experi-mental Production of "Dynamic Hydroneterativas i Tomorcanas or Dynamic Bystrone-phronis (Consideration) feerche sel seguincial patologico estila production sperimentale della decembrativa della considerativa della della satisações sum productions apartmentam indronetrosi dinamen"). Arch stal, d. chir

In the study of the rough privis and ureter the notor functions of them structures were obvious from the very first. At the beginning f this century toni no very man recognized a type of brdinpeblyons althout apparent come which they called

dynamic. It was soon resized that the nervoes system might play an important role in this disorder That neurogenous factors may manifest them. series by arinery operaction is sell traces years genous Changes in the function of the recal priving graces counter in the direction of hypertonia and spann or atony, both of which may lend to diletetion of the pelvis. However, such jours efforcis forms of

The author reviews the hterature on hydrone phrosis and on the neuro-stationy expectally the sympathetic system, of the areter and recal peirls Because of the great cocertainty as to whether potential activity a primarily myogenic or neutron genic, he understook experimental studies to detergenne the nature of the changes in the motor fanction of the ureter produced by partial destruction of the intrinsic ureteral pervous system, what changes in marine understance system, what compare in function have purely neurogenous basis, and what changes result from morphological attentions

Il found that the optimum tension or pressure in the arrier for the maintenance of perustaltic these levels fatigue results rapidly Enervation of the trefer produced mechanically or chemically is c cm of water Above followed by changes aspecially in periodicia, but the pendular movements tend to person, industring thet the musculature retains is atomaticity and poten-

In his studies of the morphological changes in the an an annual of the manufacture of the disacceptance of the adventities such that the meacolumn is period or isimicina covered by only very this loose connective theme may result fater in scierous which may change the ureter by disorganling and inditating the misculates or replacing the muscle th connective tissue. As consequence the conti uity of the muscle is interrupted so that noting contractions cannot occur in the involved region f action is impaired, and retention of orms region ; action is imparted, and recovered or other with distation result. When the mechanical changes are less extensive and only the nervos are manifed, the changes of function are mild and no morpho-

logical changes result. Obstruction cannot by trams is therefore mechanicodynamic and das fundamentally to admotic stenous or angulation Although the automatic movements of the mesoin of the under perms, they are not of an expanse

## Joly J S. The Ritclosty of Stone, J Ural 1934

Following a review of the history of stone formation and a consideration of the scorraphical distribution of the coodlition, the author discusses the role played by det and disease in the causation of stones the mechanism of stone formation, and the chemical character of the stones. With regard to the influence of diet be calls (tention to the role of inadequate or our se caus turning to the rose or management and especially vitamine orderecy Among the pathological conditions favoring the formation the parameters community producted former bilination, correspondition, tuberculosis of lone, and decrease of the unnery organs such as hydroc phrysis, vesical obstruction, congress all anomalies and infection. Joby states that any factor impairing the trability of the printery collect mechanism protocody affects the solubility of stone-forming sains

GREET | TROUB, M.D.

Frather G. C. A Method of Remostatis During Nephrotomy for Large Lidney Calcult.

For the removal of large renal calcult, Prather applies pedicis clamp and on the posterior settles of the kidney makes a V incison with its aper at the renal privis. He uses a 9 in Doyce curred intestinal clamp covered with acit rubber boots. After compression for from eight to ten munits the clamp is released for from twenty to forty seconds. Several cases in which this procedure was used see OCCUPENT J THOMAS M.D. Opponheimer G. D.

Kidney And Sur Ris. 00 pd. Polycystic Disease of the

Oppenhelmer calls attention to the difficulty encountered at times in differentiating bet een concontral polycystic kidneys and the multiple cysts gental posycytose noneys and the municipal sym-found in arterioscierotic indusys. This is of general importance in the diagnosis of unflateral polycystic

Polycystic disease of the kidney is of its choical types—that found in newborn minats and that found in adults. The former is often associated (the other congenital anomalies. In most cases of the latter condition the symptoms develop between the ges of therty five and fifty five years, and the

erage age tideath is fifty years, indicating that he expectancy is decreased by from ten to twelve year 146

The author states that there is a familial tendency toward the disease. While in most recent reports the bilaterality of the condition is emphasized, he presents two cases in which postmortem examination showed the involvement to be unilateral. One of the subjects was an infant and the other an adult

On the basis of the symptoms the cases may be divided into eight clinical groups. The two chief groups are the cases with cardiorenal vascular disease and insufficiency and the cases with hæmaturia, infection, and large masses in the loin. In most cases there is either clinical or laboratory evidence of renal insufficiency. Of the cases reviewed, cysts of the liver were present in about 25 per cent, definite hypertension was found in the majority, and infection and stone formation were complications in 32 and 23 7 per cent respectively.

The author discusses the use of urography in the diagnosis and emphasizes the importance of the use of a non irritating substance for retrograde

pyelography

In discussing the treatment he urges extreme conservatism. He believes that operation should be reserved for complications such as diffuse suppuration and stone formation. IRVING J. SHAPIRO, M. D.

Colston, J A C Primary Tumor of the Ureter A New Method for Complete Nephro-Ureterectomy Bull Johns Hopkins Hosp, Balt., 1934, 55 361

Colston reports a case of primary papillary epithehoma of the ureter with the hitherto unreported complication of implantation in a probably pre-existing bladder diverticulum. The treatment consisted of nephrectomy followed, nine months later, when the correct diagnosis was made, by complete ureterectomy, and six months after the ureterectomy, by removal of the diverticulum containing the tumor implant. The correct diagnosis was not made until persistent bleeding from the ureter was discovered by cystoscopic examination and the ureterogram presented a typical picture.

Also reported are two cases of primary tumor of the ureter from the records of the Brady Urological

Institute, both of which were fatal.

The difficulties in early diagnosis are discussed. The value of the diagnostic syndrome of Chevassu and Mock—obstruction to the passage of a ureteral catheter followed by a copious flow of blood from the ureteral orifice—and the great importance of the ureterogram are emphasized.

According to the literature, it is generally agreed that the treatment of choice for primary tumor of the ureter is complete nephro-ureterectomy

Many methods of so-called complete nephroureterectom, are unsuccessful because they do not remove or destroy the mucous membrane of the distal stump Complete eradication or destruction of the entire ureteral mucous membrane, especially the part in the intramural portion of the ureter where tumor implantation has been shown to occur, is of extreme importance

The author describes a method of complete ureteronephrectomy in which the previously well-known steps are supplemented by a hitherto unreported technique by which the mucous membrane of the distal stump of the ureter throughout its whole course through the bladder wall is completely destroyed with the high-frequency current

CLAUDE D HOLMES, M D

#### BLADDER, URETHRA, AND PENIS

Fresnais, J Cutaneous Ureterostomy in the Treatment of Persistent Cystitis After Nephrectomy for Tuberculosis (L'urétérostome cutanée dans le traitement des cystites rebelles chez les néphrectomisés pour tuberculose) J d'urol méd et chir, 1934, 38 315

The development or persistence of irritability of the bladder following the removal of one kidney for tuberculosis may be due to the presence of tubercle bacilli in the urine or a vesico-ureteral reflux or both When tubercle bacilli are found in the urine their

source must be determined

The indications for ureterostomy are (1) severe symptoms which cannot be otherwise relieved, and (2) a vesico-ureteral reflux, which may cause infection of the other kidney. Cutaneous ureterostomy is to be preferred to implantation of the ureter into the bowel (which is very dangerous when only one kidney remains), to cystostomy (which does not entirely relieve the symptoms and does not prevent reflux), and to nephrostomy (which causes destruction of the renal parenchyma). Its contra-indications are secondary infection of the remaining kidney with blockage of the ureter and a ureter too thick or infected to be brought to the skin. When ureterostomy is contra-indicated nephrostomy should be done.

In the technique of cutaneous ureterostomy used by the author the ureter is reached by an extraperatoneal approach through the lumbo-iliac region. It is divided with a cautery and the distal end tied off. The proximal end is then brought out through the incision and anchored to the muscles and skin, 2 cm being left protruding above the level of the skin. A Nelaton sound is introduced through the ureter into the renal pelvis. The catheter is watched to prevent its becoming clogged. It is kept in place, and can be changed once a week by the patient.

After this operation the vesical pain ceases and there is little or no evidence of dilatation of the renal

pelvis or ascending infection

Of ten patients treated by the author, one could not be traced, three are well (one, seven years, and two, less than one year after the operation), and six are dead. Of the six who are dead, one died seven years after the operation of an intercurrent infection, four died six months, three years, one year, and eighteen months respectively after the operation of urama or generalized tuberculosis, and one died fifteen days after the operation with marked hæmoptvsis. The ten cases are reported in detail

MAX W ZINNINGER, M D

## GENITAL ORGANS

Resy E. R. The Surfery of Prostatic Obstruction. F. D. & De surgery or expensive operations. A Entrelled & Ten Zenland J. Surg. 1934, 41 pt.

The author raviews the physiology and anatomy of the neck of the bladder discusses in considerable detail the types of disease of the neck of the bladder which came obstruction, and describes his pre-spective and postoperative care of cases of pros-

If then reports the results in the first 100 cases in at their reports the resolute at the state of the securior with the McCarthy instrument. His first so cases which were selected, consisted chiefly of cases of some series executed, consider case of the part of cases were barn and small products. The part of cases were ours and small production of all types of prostatic obstruction demitted to the hospital. In 3 cases prostatectomy had been done. The best results were obtained in cases of alight hypertrophy and hypertrophy of the mittig lope. In 1 ceases the dist observious are not reason to seek at least other robusts or reason to seek at least other robusts. sufficient. In 1 case 3 operations were deno. There were 4 deaths The average length of time the patients remained in the hospital was to cuty-three persons to similar group of Cases in which prostatectomy was performed it was forty-eight

in conclusion the author states that transucethral resection represents a marked advance in the treat ment of promine a market avanta in the countries of choice except to cases of each lette photochologies cases except we came of very large syncrity ones for the latter group, which he believes constitute about 3 per cent of all cases of prostate obstitute

TREOFER P GRAFTER M D

Regulant, M. M. I The Behavior of the Testicie Fol Spant, Al. at I can be never of the feature for lowing Partial or Total Removal of the Parietal forming further or Total Removal of the Further Fortion of the T nice Validate (II compared ment) of distriction in about all compared particle back of fortical particle approximately property. And and de class 924-37 66;

The author states that his study was instigated by the designment in the results of removal of the resident vagnaties which have been reported in the Micrature. While some investigators claim that removal of the tunion variable has no effect on the contract on the season years are not secret on the feeticle, others state that it may cause the texticle to undergo partial or complete atrophy

according study was made on dogs. In sinc dogs the tunica vaginalis was removed partially and ten dogs i was removed completely. At defaire intervals thereafter the meticles were removed for microscopic sindy In both groups of animals de sociative changes were found to the tenticle som grocerative changes were assume in the interact some after the operation. These affected all varieties of semiodirous epithelia. Their degree semand to be directly proportional t the differentiation of the circly proportions; the macroniston or in the interminal cars or Laying acre married resistant to change. By special statings methods, firedynis and health were demonstrated only in a short period of time the degenerative charges as a sucre period or time the organization country disappeared and restitution occurred. The styrogen and fat returned to normal in about a mouth, and

and the appearance of the testile returned to normal in about three months. The removed to see me and a series of the control of th The author explains the change observed as reaction to the traums of the angreal procedure A LOCK ROW, MD

## SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

### CONDITIONS OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Lucchese, G The Influence of the Suprarenals on the Formation of Bony Callus (L'influenza delle surrenali sulla formazione del callo osseo) Policlin, Rome, 1934, 41 579

The author reviews the history of our knowledge of the functions of the suprarenals He calls attention to the importance of the suprarenal cortex as evidenced by the multiplicity of its functional activities To determine the influence of the suprarenals on callus formation he performed experiments on three groups of guinea pigs each of which in cluded four animals In all three groups the radius was fractured and the ulna left intact. In Groups 1 and 2 a partial suprarenalectomy was done ten days later, and in Group 2 the operation was followed by the daily administration of cortical extract Group 3, which served as a control, only fracturing of the radius was done One animal of each group was examined after ten, twenty, thirty-five, and fifty days In Group 1, roentgen ray examination and hiopsy showed delayed and deficient healing even after fifty days In Group 2, they showed more than normal and more rapid callus production Group 3, they showed more marked healing than in Group 1 and less marked healing than in Group 2

Lucchese concludes that deficiency of the suprarenals retards fracture healing, and that the injection of an extract of the suprarenal cortex advances fracture healing Barbara B Stimson, M D

Ellis, R W B Osteopetrosis (Marble Bones, Albers-Schoenberg Disease, Osteosclerosis Fragilis Generalisata, Congenital Osteosclerosis) Proc Roy Soc Wed, Lond, 1934, 27 1563

Osteopetrosis is known by several other names "marble bones," "Albers-Schoenberg disease," "osteosclerosis fragilis generalisata," and "congenital osteosclerosis" It is characterized by areas of increased density symmetrically arranged. The compact bone encroaches on the medullary cavity, almost ohliterating it. The most common sites of the lessons are the hase of the skull, the vertebral bodies, and the long hones Other hones usually show some degree of osteoporosis Except for club hing of the ends of the long bones and the posterior clinoid process, the general shape of the bones is unchanged The name "marhle hones" was not well chosen as the hones hreak more easily than normal hones The term "chalky hones" has heen suggested as the hones can he drilled and hroken as readily as chalk. However, it is claimed by some that the sclerosed bone is abnormally hard and breaks in transverse areas of decreased density

The disease is frequently familial. There are records of cases in which one of the patient's parents had the same affection. The condition may be present at birth. Delayed eruption of the teeth and dental caries are common. Encroachment of the cortex on the marrow cavity causes a disturbance of the blood-forming system resulting in certain forms of anamia and leukamia. The enlargements at the base of the skull sometimes cause neurological symptoms. Some of the cases of delayed growth may be due to pressure on the pituitary gland by the

hypertrophied clinoid process

The author reports two cases The patients were hrothers One of them was two years and ten months of age and the other a year and a half The parents were English and were second cousins Neither the parents nor any of their relatives had a history of ahnormal hone conditions Both of the patients were delivered with instruments. The older boy was normal up to the age of six months He then had a convulsion at the onset of pneumonia Thereafter his eyesight was defective His skull showed bulging of the frontal and parietal Closure of the anterior fontanelle was regions delayed The teeth were chalky and showed defective calcification. The fingernails showed platyonychia There was bilateral primary optic atrophy Roentgen examination revealed increased density at the base of the skull and of the cortices of the long bones, marked expansion of the ends of the diaphyses, and cortical encroachment on the medullary cavity The Wassermann test was negative and the blood count normal The serum calcium was 8 9 mgm per cent and the blood phosphatase 125 units

The younger hrother was hreast fed for three months and then given cow's milk and a proprietary emulsion His first teeth appeared at the age of five months, and he began standing when he was seventeen months old. He had a massive skull with a wide anterior fontanelle. A pigeon-breast deformity, beading of the rihs, and expansion at the ends of the long hones were found Eye examination revealed dilatation of the pupils, bilateral internal strahismus, and hilateral primary optic atrophy The calcification of the teeth was defective, and the nails showed platyonychia. The roentgen findings were practically the same as in the hrother The Wassermann test was negative The serum calcium was 9 97 mgm per cent and the phosphatase 9 6 umits In neither case was there clinical evidence of thyroid or parathyroid enlargement.

These cases demonstrate the hereditary tendency of the disease and the disturbance of calcium metabolism. In some cases calcium deposits have heen found in the tendons, myocardium, skin, vessels, and remal polyes, showing that the discuss is more than bone affection

On the basis of the theory that the increased calcium depodis were due to parathyroid defectors the author patients acro given daily injections o patients were given daily injections of parathyroid hormone. In both cases there was an immediate rise in the serum calcium during the injections, but after about two weeks this was an immunity to the injections The believes the was

an immunity to the injections the The results of the treatment were in accord with the findings of studies on rats The evidence appears to indicate that the discuss is of parathyroid origin WILLIAM ARTHUM CLARK, M D

Richard, A. Dupula, v p Rodderer C. and Froyer, R.1. The Dynchoodroptasis of Officer (La dynchoodroptasis d'Office) Press and Par 934, 92 BH

The authors report to detail two cases of smultipl skeletal anomalies in gride seven and cheven years of The nonalica consisted chiefly of abortening and deformittee of the long bones of the extremittee and of the small bones of the bands and fret with secondary disjointions. The condition was discorered during earliest infancy but hereditary fac

Clinically the leasons present to be exclusively smiateral as one case and predominantly unitateral as one case and predominantly unitateral in the other The right lower himb showed shortening of 0 cm. in the first case and shortening of 1 on in the accord case. The right upper limb thou ed shortening of 4 cm in the first case and shortening of 7 cm in the second. The lexions in the hands consisted of shortening and deviation of the digits The roentgra findings were also similar in the ra cases, but were more pronounced in the second case then in the first In the first case biopsy showed that the lenon was not carrilaginous tumor but a carried access when the carried access remove not a Cateochain performed when the patient was two said a half years old showed the leasons to be croftetonary Orientomy which was performed when the patient as seven years old and was followed by thin three mouths demonstrated

that the dystrophy was capable of ossuccation These Endings justified the disgroup of Other dyschondroplasia

While the term Other disease is usually employed to designate any cardisgnoon dystrophy empayres to occurrant any carmagnosts opening, selfthe autume trains office annual control of the characterized by ancremented control courses courses and deformity of the duphrees of the larger long bones Ostsochondroms tosts involves pomaril the extrement, especially the fagers

In the cases reported in the literature the condition was predominantly unlateral, the leadin on the other side having been discovered only on roenigen commination. In exteen cases the involvement was officily undateral Officer reported two cases in

The dynchondroplasis begins during the first years of life. In some cases it has been decovered t birth 11 occass more frequently in females than as males Except when associated with suntages it

Particularly the long bones of the extremities and the small bones of the digits are involved. Fact and the sense pours to the line bones, the scapeire, and the tibe may also be affected, but payer the boses of the face, skall, spine, wrist, or salls (except perhaps the calcanema). The deformities increase up to the age of calcification, and if operated post too early will recur There are four stages stage a stage of calcification, stage of beganing

conficution, and a stage of commissation in discussing the differential disposals of the in instrument to construct the construction from multiple construct and choosiness. tons the authors state that the formation of multiple constones begins during the second period of childhood occurs more frequently in males than in females, inquently presents beneditary aspects. and causes only men (among trails amounts pe kisons of the hands the bones being formed kelly of enchondroses. The lesions are builtrail, and the appearance of chondromats in adults is quite rare In choodromatosis the knows appear in cut infancy are more common in makes than in females frequently show hereditary features, the lesions of the hands are of prime importance, the applying are formed of enchondrace, the lesions are builties!

and chondromats to fairly common in adults from his experiments Bention coachided that Cliffst discusse is not provided dystrophy bet metaphysical metaphysical of sympathetic orups The a thorn believe, however that the known produced experimentally by Bentson were not

From the autopsy specimen described by Specier in 9 5; the authors conclude that the dispersed seasons in dyschondroplesis are either enclosiones of periosical origin or metaphyseal lessons derekping in the disphyses. The fact that the condition has been discovered at birth indicates there is congenital borry districtory. The authors are of the opinion that whereas Other, discuss constitute, distinct disease entity it belong with multiple exostores and chondrown tons to a more general group of diseases for which they propose the same chondrodystrophy to signify changes in normal octrogenesis ith dis-epiphysesi and periosesi charges cometing of the presence, at the level of the regions involved, of an abnormal amount of

EDITE SCHANCER MOORE

Manerice, F. Jambert De Bennjeu, A., and Rioch.

A. Progressive My settle Oscificius (Mysans omfants progressive)

Press and Par. 854, 41

Progressive myositis conficine has been know in England since 744 and in France since 540, but was first recognized as chalcal entity by Moraclmeyer in 1869 Although a rare condition, nearly

300 cases have been reported

The authors report the case of a boy two and a half years of age which they consider very typical The child was the fifth in a family in which the other children were entirely normal The family history was negative The patient was normal until one year of age, when he had an attack of dysentery Three months later, a fall was followed by the formation of a hæmatoma in the left parietal region The hematoma later disappeared but was followed by a series of nodular swellings in the cervical and occipital region, some of which disappeared and others of which showed ossification When the child was seen hy the authors, ossification in the cervical region had caused a slight anteflexion resembling that of cervical Pott's disease, and there were osseous swellings in the left retromastoid region and the suhclavicular region Both pectoral muscles showed marked hut asymmetrical ossification. Asymmetric osseous infiltration was found also in the muscles of the scapula and sacrolumhar region There were several congenital deformities-microdactylia, a deformity of the thumbs, bilateral hallux valgus, and cryptorchidism Roentgenograms disclosed thickening of the clavicles, deformities of the bones of the hands, and bilateral cova valga They also showed that the bony swellings and infiltrations in the muscles were entirely independent of the hony skeleton, thus proving that they were not exostoses On the medial horder of each tibia there was a small exostosis originating near the point of insertion of the popliteus muscle There was no definite increase of blood calcium and no evidence of endocrine dysfunction The child was active and, although there was some retardation of speech, was normal mentally Attention is called to the fact that while, as in other cases reported, the congenital bony deformities were symmetrical, the development of the osteomata was asymmetrical. The co existence of such bony deformities with progressive myositis ossificans supports the theory that the disease is due essentially to a congenital "perversion" of ossification or, more exactly an anomalous development of the mesench me from which bone, cartilage, and connective tissue are formed.

Various methods of treatment proposed for progressive my ositis ossificans have not proved effective Numerous drugs, including acids, iodides, fibrolysin, and mesothorium, have been tried without definite results. Radiotherapy, which has given encouraging results in the circumscribed form of my ositis ossificans, has been advocated by Nove-Josserund, hut is considered dangerous hy Rosensten and others. The authors have not tried any form of physical therapy in their case, and do not think that surgery is indicated. They state that any operation would be only palliative and of value only to relieve a joint deformity or perhaps some other deformity definitely dangerous to life.

ALICE M MEYERS.

Bristow, W R Acute and Chronic Sprains Brit M J, 1934, 2 669

The muscles may be considered the first line of defense of a joint. If a spraining force is too great or of too long duration, the muscles give way and the ligaments furnish the resistance. When the ligaments yield, a sprain results. Under extreme force, the hone takes the stress and a fracture results as the soft tissues are unable to protect it.

In the diagnosis of sprain it is important to exclude fracture. If the tenderness is localized over a ligament attachment, the conclusion may he drawn that a simple sprain has occurred. If the bone is tender, a fracture should be suspected and a roent-

genogram made.

The principles of treatment of a sprained ankle include (1) pressure to limit the swelling, (2) protection to prevent further damage, and (3) encouragement of function to promote recovery A pressure bandage should he applied over cotton wool The heel should not he left out as it is one of the parts most needing support After about thirty-six hours the pressure bandage should usually be replaced by a protective strapping. In slight sprains, however, this protection may not be necessary Early use of the ankle should be advised patient should be encouraged to walk at once within reasonable limits Stimulation with a faradic current helps the muscles to regain tone Gentle massage should be given to get rid of the swelling and improve the circulation

Although simple sprains heal quickly, more severe sprains may be followed by persistent symptoms and recurrence. Chronic sprains are characterized by pain, muscle atrophy, limitation of movement, and synovitis. The patient with a chronic sprain may get into the hands of a hone setter or other irregular practitioner who tells him that a bone is "out" and proceeds to "put it back." What such a practitioner really accomplishes is the breaking up of adhesions which renders the patient more comfortable. This can and should he done more often by

the legitimate surgeon

For the treatment of the chronic sprain the author advises putting the joint through its full range of motion either under anæsthesia or hy repeated manipulations to the extent of the patient's tolerance without anæsthesia. The building up of muscle strength hy active exercise and faradic stimulation is also of importance. The so called "tennis elhow" may be classed as a chronic sprain. Other examples of such sprain are the tearing of muscle fibers from the public ramus (rider's strain) and tearing of the soleus group.

William Article Clark, M. D.

Smart, Sir M The Pathology and Treatment of Sprains Bril W J, 1934, 2 673

The author makes a distinction between the words "strain" and "sprain" He defines "strain" as a rupture or injury of muscle fibers, and "sprain" as an injury to the joint ligaments and capsule He states that the latter is the more serious lesion.

An acute sprain may be so alight that it is neg An action speam may be no sugar that it is neg ecited by the patient. However, there is danger that the joint may subsequently be much less efficient because of the wasting and loss of tone in the muscles. The delicate arrolar connective there which fills in the space between the more firm joint structures and carries blood vessels and nerves is damturn and carries owner reservants and he was a unitarity and the damage to this time may be responsible for continued disapplity especially when the treatment has been banatmay especially when the treatment has been pro-longed rest. The soft rooter tissue becomes socked in stagment lymph, and unless the lymph is removed soon it undergoes hardening changes leading to or ganisation and adhesions which cause persistent disparameters and automore manuscripe personnel un-comfort and disability Ton much rest in treatment is responsible for this condition. Rost is only pallia the treatment. It releves pale, but may lead to disastrons results. Of chief importance in recovery is the rate of absorption of the effection, and this is best increased by active one A recently inj red muscle can be made to contract and relax without perceptible motion of the joint across which it passes Such activity cames no pain, yet produces the de stred effect WILLIAM ARTHUR CLARK, M D

Bossi, V Researches on the Method of Healing of at, y Researches on the Alexhou or Healing or Experimental Lesions of Tendons (Runra's ad-Approximental Language at Language (macross mode di grantpore della lesso di grantpore della les

The author presents some of his observations with regard ( the attracture of tendons and reports the results of his studies of the beating of wounds made tenants of an actuate of the message of avoiding matter by tentony in does, borner, and smer. In some of his experiments he left the traden ends afterly separated in order to study the influence of function on repeneration. In all of them the tendon sheaths

or representation peritorchacum were preserved From his studies of tendons at persons ranging from forty-eight hours to two years for tenotomy especially in the horse and the ass Bossi concludes that all parts of tendons and their shouthe have recan an person transmission and animals be found that generative powers. In young amounts we seems that the ends of the tendons of the fierous of the phatinges, even a hen separated from 3 t 5 cm united without suture by means | Dew Dance formed between them which in time became tendinous

Under these conditions the process of regeneration of the tendon bundles and the internal and eviernal peritendineum is simile | the process of normal development and growth of tendons. There is, in fact, a tage in which the collagen fibers are in long itedinal and perallel formation and above nearly formed tenoblasts and elements which provide the internal peritendraeum t the accordary tendons Between these formations of the collagen abers are the kistological elements from which the penterdineum separating the tartiary tendon bundles

The external peritendingum is re formed by proheration of the templasts of its deep layer some of which participat also in the formation I the new tendon fibers.

The new formation of tendons observed is the As new measures in the horse from is die to eighteen days after tenotomy with considerable to expected may after temporary with commerciation of the cut ends indicates that in the equipe species functional stimulation is not essential for the regeneration of tendons

Researches on the process of heating of tendoes with large aypoytal aboaths indicate that the synoylam does not obstruct regeneration of the trayour trees not construct regeneration or true terms. ments of the tendon

ents or the imition.

The importance of the gr, species, and general condition of the animal in tendon repair is discussed The reactivity and proliferating characteristics of the tendon sheath and the external and internal perfernilheum are important for the healing of a divided tendon in an aseptic field Observation indicate that the early development of these pure is an important periodicite for the socres of operations on tendoms. The hyperplants in the sheath often for surpasses the hyperplants in the tendors

Kacht, B.; Subacute Suppurative Octoomy effice of A LOUIS ROW, M D the Atha (Zer Kenning der machine eringen Land der Kenning der machine eringen Ostoonychite des Aties)

N'an ibes, it checks

Non-specific suppurative disease of the vertebral column is relatively rare. T date, only about no ceases have been reported. Among these there are

only I cases of ostromyelitis of the atha The danger from ostromyesitis of the siles is very prest since, in addition to sepais, meningitis thresten the In most cases the disease begins with pair is the region of the sape of the neck which very early keads to limitation of the movement of the next After an interval, a high lever and chills develop Soon, there is rigidity of the neck which from any each to diagnosis of meningitis. The high lever the often quite marked leucocytosis, and the midcharacter of the pain after joiling of the vertebral column speak against tuberculous spoodshits There may be history of furnacies, asgues, and travers The roentgenogram is rather of no aid is the dag And townsprings in a citizer of no and or the man notife or yields positive findings only relatively life Eventually an absects may explain the picture

The author reports cases, in one of which the the author reports there, in one or wash or distribute was confirmed by autopsy and in the other of which it was based entirely on the clinical and rocatgen findings. In the first case the abacus as found behind the sternocichiomestold muscle the second case t was retropharynges! Is the first SECTED B.

case the cause was hemolytic streptococus, and the second case the staphylococcus progress (M. Hiraca.) Locia Air anti M.D.

Salbachs, L. G Radio-Ulner Synostesis (Centribucie si estal A Contribution to the Study of de la moletana radiocubital congunta. Res mil

Radio-minar sympostonie is assually congruital auformation and often hereditary It is more frequent in females than in males. It is characterized by osseous union of the two bones of the forearm at their proximal extremities. In many cases it is accompanied by other malformations such as hypertrophy and incurvation of the radial diaphysis, atrophy and incurvation of the ulnar diaphysis, and dislocation of the head of the radius.

The chief clinical sign is fixation of the forearm in pronation Functional disturbances may remain masked by exaggerated movement in neighboring joints. The condition is disclosed by roentgen

examination

The treatment is surgical The two operations possible are

I Section of the synostosis, resection of the head of the radius, and the introduction of a tag of muscle and fascia between the sectioned ends of bone

2 The formation of a pseudarthrosis in the radius by resecting a portion of its diaphysis below the synostosis This procedure combined with physical therapy gives good results

WILLIAM R MEEKER, M D

Schaer, H Patella Partita (Die Patella partita) Ergebn d Chir, 1934, 27 I

Partite patella is characterized by separation of the knee cap into two or more fragments. The anomaly was first described by Gruber, of St

Petersburg, in 1883

The condition is of five types The author describes the individual types and the roentgen findings in each, citing illustrative cases from the literature The first and second types are quite rare The third type is by far the most common To this type belong also the so-called emarginations (marginal defects) in the upper outer quadrant of the The roentgenogram in this type usually patella discloses a bilateral half-moon-shaped osseous defect similar to that in the third type but without a demonstrable bone shadow in the defect. Another anomaly of the knee cap which shows a close relationship to the third type of fissured patella is incomplete fusion with the main mass of the patella of an accessory nucleus on the upper, outer border of the knee cap In the fourth type of patella partita the fissure is at the medial border of the knee cap These types are rare In the fifth type of partite patella, which was first described by Hacnisch, the patella is divided by a frontal cleft and made up of two apposed concave disks separated from each other by a uniform fissure plane several millimeters wide which is concave toward the knce joint This condition causes no functional disturbances It is believed to be a congenital

As a rule partite patella is first discovered by chance during roentgen examination of the knee joint for some other condition. Only occeasionally is its presence determined by clinical examination alone. In many cases of the second and third types there is a considerable increase in the transverse diameter of the knee cap. As a rule partite

patella 15 described as a harmless anomaly as 1t usually causes no symptoms

In the interpretation of the roentgenogram in a case in which the presence of fissured patella is doubtful it must be determined whether the condition is an anomaly or a traumatic lesion such as a patellar fracture. In recent years this problem, which is so important in insurance cases, has given rise to lengthy discussions. As a rule the differentiation is relatively easy, but in some cases the diagnosis requires careful consideration of the history and chinical course and repeated examinations.

In exceptional cases of partite patella surgical intervention is indicated, as when trauma has loosened and dislocated the isolated bony nucleus

The author cites a case.

Knowledge of patellar variations in the animal Lingdom is insufficient for a phylogenetic explanation of patella partita. However, from the findings of the investigations carried out to date it appears that in some cases ossification of the knee cap may be multicentric. This fact is the chief basis of the theory ascribing the origin of the fissured knee cap to the imperfect ossification of several nuclei. The conditions under which the abnormal ossification occurs are still unknown. On the basis of his own pathologico-anatomical studies the author ascribes patella partita to the persistence of epiphyseal lines which vary from case to case and show various degrees of cartilaginous degeneration. The problem of the nature of patella partita has given use to long discussions and various theories. Gruber believed that the condition is the result of imperfect fusion of two osseous centers This is the theory most generally accepted today as it is known that the knee cap may ossify from several ossification centers However, it is still unknown why, in certain cases, the bony patella arises from several nuclei, whether this multiplicity is based on a multinuclear anlage of the cartilage, or to what such an abnormal anlage is to be ascribed.

Siemens was the first to report the familial occurrence of split patella. He observed the condition in the father and a brother of one of his patients and in two brothers of one there.

in two brothers of another

From numerous cases, some of which he observed clinically himself, the author has gained the impression that knee joints in which the knee cap is fissured react considerably more intensely as re gards the duration of symptoms as well as objective changes (B VALENTIA) JOHN W BRENNAN, M D

Wiles, P Flat-Feet Lancet, 1934, 227 1089

The author describes the deformity of pes valgus and discusses the mechanism of its production and the methods of treatment.

The normal longitudinal arch depends upon three factors (1) a relation of the involved joints which permits transmission of the body weight from bone to bone, (2) maintenance of the position by active muscular contraction, and (3) tying together of the piers of the arch by the intrinsic muscles

Per veigus is an evertion and absorction of the foot made plastings de y elevation of its moduli border with I volvement of the substragalish fotas. If originate congenitally in the subset eye pol infant. It may become corrected when the third begins to ask to between the ages of the and at years. In other cases, frepostily those of persons with poor measurate cone, the wiges posteric permits last indult life. Adults who have had good foot posture permission of the control of the control of the measurate failure of the control behaves useful of measurate failure of reporting the period about by filance standing, protocopic failure is about by filance standing, protocopic failure in lacrows in body wight, or shoperings of the candon

of Achilles
As per valges is produced by evertion and abdoction, addiction and inversion—ith lovering of the best of the first mentataral will produce a normal such. This change is accomplished by a rotatory son-ement produced at the subastragaloid joint by

one of the two follosing mechanisms.

The forefoot and on takin are moved in and while the leg is kept still, and the intocing is corrected by external rotation of the whole her and font.

1. The forefoot and on calcin are kept still while

the keg is rotated externally. Lupochily the types does to muscular fallurs require this treatment which in reship consists of reculars than the muscles so that the pathesis an consciously inverte and address the foot and die received the foot and the successive of the foot does not appreciately agree that the post through the postulars of the foot does not appreciately after the postless of the substantiability just and is therefore of bills when As mile defects of bodily posture, such as sufficient to the pathesis of the parties of the pathesis of the parties of pathesis of the pathesis of the pathesis of the parties of pathesis of the p

Patience and cooperation are accessive ad over

correction must be avoided

In painful flat foot there may be scarlied or contracted interoseous ligaments which require the breaking up of adhesions by manipulation and contizated motion to prevent recurrence

REPORT & REKER M D

homphetti. O. A. Cliniconstitution! Study of the Cases of Configurate Cash-Foot Observed at the Rizsall Orthoppedic Institute in the Period from 1899 to 1993. Studies disconstitution are one diports our compension over the all Institute. In topochoo Rizsalo dal. Sop. 81, 93. (Am. d. organ di merinante 1934. D. 55

The report is based on a 35 cases of "lub foot representing 3,407 club-feet. The statistics is worked out detail, shown in tables graphs, and maps and compared with those of other aments gators. The satisfact are summarized as follows:

Congenital chib loot as twice as frequent in make a to lensiles and more frequently believed than unlatered. When it was unlateral it occurred more often on the right side that the left. It bilateral more frequently in males than in tenules It occurred on the right side more often in females than in smales, but on the left side with equal for quency in males and females.

Pre equinus varos supinatos was present is to pet cent of the cases. It was more frequently ollateral than unilateral. When unilateral, it accurred more often on the right side them on the left

Per talus valgus occurred in 9 e3 per cent of the cases. It was more frequently halateral than unflateral. When unflateral, it occurred with equal frequency on both sides.

Menatarion varua was present in 4 92 per cent of the clases. It was more often unflateral than biliteral and occurred more frequently on the left side than on the right.

on the right.

Alized forms were persont in 3 2 per cent of the cases. The most common was equines varies separation of one foot with tales values of the other.

The data are insufficient to permit conclusions as

to beredity and familial occurrence

to Develop the interpreted with above the same forpostulation and represent with above the same forpostulation. The annulute flash as said to have
determittee. The annulute flash as said to have
been normal fin quantity in 31 66 per cent of the
eases, increased in 18 18 per cent decreased is 20 per
cent and absent in 0.5 per cent. These per
centages seem high, especially as objectly discussion
in either rur. The frequency of such treats
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eases of congenital clab-foot indicates that see
articulation are of importance in the present of the
deformation. I terrority also us the frequency
for the same of the produce of the frequency
for the same of the produce of the fermion
that stems and the consequency presentation are of
schoolstill importance.

Associated deformities are present in 7 to per cent of the cases. The most coormon as coordinal dislocation of the hip, which occurred in a 55 Pr cent, and the next most common, austriple delors.

tres, which occurred in a ob per creat

The geographical relationships are interesting in the Provision of Rologna conspectable (do feet is more common in the flat regions than it has not added to the first factor occurs in a boast of every 1,000 shaholing best in greater of constraints and the first feet in greater of constraints and it is consistent of the first occur in lockited reposes. It some reposes as care as been observed for as hong as talkey from 1,001.

occur in holated regions. It some regions as occha w been observed for as long as thirty four jean. Aroung congenital deformatics, clab-foot right accord to dialocation of the hip and is followed torthcollar, the modesce of these 3 conditions here?

The article is followed by hubbographs

If F More M.D.

Laxity L. The Congruittel Correct Salein Fort (Ded less concental concent) Roll d to See d characterists for 1934 24 44

In 1914 Nové Jouerand called teration to special anatomical lesion of the congruents of their which is different from that of the acquired flat-foot. When a lateral roentgenogram of a flat-foot of a child about fourteen years of age is examined, it will be noticed that the long axis of the calcaneum makes an angle of only 5 or 6 degrees with the sole of the foot, while in a normal foot this angle is 14 degrees The astragalus is depressed and inclined forward, and the cuboid is low at its antenor end In the congenital flat-foot the angle between the calcaneum and the sole is reversed, this bone being rotated so that its posterior end is higher than its anterior end, and the angle with the plane of the sole opens posteriorly The astragalus is also rotated or is tilted forward so that its long axis is almost perpendicular The scaphoid is in contact with the superior surface of the neck instead of the head of the astragalus The lower border of the skeletal structure forms a curve downward, the apex of the curve being at the calcaneocuboid joint The foot itself shows a large convex valgus bulge When seen from behind, the outer margin is higher than the inner and the tendon of Achilles makes a sharp curve inward The anterior part of the foot is abducted and the toes are contracted in hyperextension The fixed, irreducible character of the deformity is striking The patient walks with difficulty and is easily fatigued.

The author has operated upon six children for the correction of this deformity. In the cases of five of them the operation was done on both feet. The first patient was nine years old and had been under observation since birth At operation on the left foot the vertical astragalus was exposed through an external incision and its inferior half removed, together with neighboring parts of the calcaneum, cuboid, and scaphoid To obtain correction of the extreme valgus deformity it was necessary to cut the peroneal tendons and lengthen the extensors Bone chips were placed in an open space in front of the external malleolus A plaster cast was then applied with the position of the foot corrected as much as possible. In the right foot the astragalus was removed completely with the exception of the superior cartilaginous part, but neither the peroneals nor the extensors were cut. The leg was advanced over the foot, and a somewhat better arch obtained than in the left foot The result was very gratifying The child was able to maintain a normal equilibrium, walk, run, and wear shoes of normal shape

In the case of the second patient, who was five years old, astragalectomy was done on both feet with a good result. To reduce the deformity it was necessary to cut the external lateral ligament. A similar procedure was carried out in the four other cases with good results.

The foot is placed in moderate varus for one month, and at the end of that time a light brace is made over a model of the foot Walking is begun at the end of two months Reports in the literature show that other surgeons are in accord with the author regarding the operative procedures. The necessity for removing the astragalus, sectioning

the external lateral ligament, and filling up the space in front of the external malleolus is emphasized

WILLIAM ARTHUR CLARK, M D

Browne, D Talipes Equinovarus Lancet, 1934, 227 969

Abnormal dimples are produced by the contact of bony points with the uterine wall and increased intra-uterine pressure. Talipes equinovarus is a bending deformity with pressure on the outer border of the foot caught in an unvielding position, with "metatarsal" and "extreme" varus of varying degree. Muscle atrophy results from immobilization, and the peronei and extensors are stretched while the stronger opposing muscles remain contracted.

Single deformities are never severe Bilateral deformities are always nearly equal

The equinovaries deformity favors the stronger calf muscles and, if untreated, becomes progressively worse, whereas the common calcaneus is self-correcting because of the excess of power of the calf muscles over their opponents

The author rejects the theories which attribute club-foot to nervous factors, arrest of development, hydraulic pressure, defective germ plasm, and congenital dislocation of the astragaloscaphoid joint. However, he admits that the hypothesis of a mechanical origin of the condition has not been proved

The aims of treatment are natural use of the forefoot held at the correct angle of 20 degrees outward from the sagittal plane of the body and full range of motion in the joints. Correction of the deformity of the heel follows naturally. The device used should not only correct the position of the forefoot but allow its use so that unbalanced and atrophied muscles will be aided.

In the author's method of treatment the deformity is corrected by forcible manipulation into the opposite deformity of calcaneovalgus. In the cases of infants under two years of age this is done with the hand, and in the cases of older individuals with a simple "nutcracker" vice which the author describes. The procedure causes very little soreness. After the correction, the feet are placed in aluminum splints or club-foot boots. The normal foot is kept at 20 degrees with the sagittal plane and the deformed foot in calcaneovalgus. This position is maintained by a horizontal crossbar between the legs. The manipulation is repeated every two weeks. Use of the feet is encouraged. Older patients are taught to walk with the apparatus.

The author discusses the use of the Thomas wrench, tenotomy, open operation, plaster-of-Paris immobilization, adhesive plaster fixation, club-foot shoes, and fixation on the bent knee He maintains that tenotomy and open operation are definitely contra-indicated. He believes that the results of his method in previously untreated cases are better than those obtained by other procedures

RUDOLPH S REICH, M D

## SURGERY OF THE BONES, JOINTE, MUSCLES TENDONS, ETC.

Bonnet and De Boorgnet; Indications for Rachi

ser har out to the factory of the fa

Rachisynthesis, or arthrodesis of the spinal col-umn, is a method of surgically immobilisting a acc unit, in a nature of surgicusty approximate a set ition of the spind column. It may be articular or tion to the same tonium as may to aristmer or order artificiar or both The methods of immobiliz the state of the s ing the plants common corporate newstore—the one of the planter bed, continuous extrasion, and the plaster corner—are all more or less imperient, timeconsuming, and expensive Absolute Azation can be

brought about by operation in a much shorter time. The operation most frequently performed is Albee's field grafting. In this procedure the spinous re-crossees re-crossed and the processes of the discased vertebra or vertebra and the vertebra immaeasest resterns or verterns and the verterns and distely above and below the latter are split. A graft

the desired length taken from the patient a tible is then placed in the clefts in the spinous processes and fastened by firing a layer of muscle and sponen rose over it. Variations of this procedure are used to adapt the operation to special conditions

The operation is indicated in severe scoboals for lowing infantile paralysis in which the prognosis ander ordinary orthopselle treatment is poor As a take it should be bestormed about two years after rue it amoud de personned appet (are your atter-tibe attack of infantise paralysis. It is indicated in all forms: (accions which camoo be corrected by ordinary orthopedic treatment, including progressive contemity or response a tip a tendench toward states and tion, old rachitic embons with a tendency to proseries and essential scolours which become a cess in spite of treatment. In the presence of active pulmountal tapetariest scopous sports not pe obet money increases sources serves and a serve serves and after the tabercalous lessons have become stationary ankylogis of the spansi column in good bootton may be done and will improve the land capacity. The cases much be carefully selected and the operation performed at just the right time. In the operation recovered as you may get the operated pleasing charge or tetams, a cure can be obtained by orthopedic treatment and operation is not indicated Operation, when increasily should be performed be

tote across ettitoque peas perome maquelle general rule the spanal graft should not be applied until bers on the tenth and twelfth years of age. The operation should be preceded by ortho age the operation sound to pressure by orthogen The osteonynthesis will maintain the correction brought about by the orthopedic treatment, fix the accelerate support of the terrospector treatment, fir the accelerate returned in po per cent of cases, improve the general condition and the circulation, increase the capacity of the langs, and decrease tach) cardia and polypoors

The operation is radicated in spondyloffsthems and in closed traumate of the spansi column. In tuberculous of the spansi column in young children it is indicated only exceptionally as i may interfere anth growth. However in high curvical and sub-

occlustal lesions it may be accessary as a his saving measure. It is indicated absolutely in the case of particular bet con fifteen and thirty-fire years of age. tricitaely in the cases of batteria persons as renturely in the cases of patients between their few and fifty years of age, and only exceptionally in the cases of patients more than fifty year old

APPERT GOM MOROLY, M.D.

Massart, M. R. SACTO DARGES) BALL of min. Sec. of character in Sacro-Hac Surgery (Chumps

Units most joints, the secre-like joint is formed embryologically by the juxtaposition of ta bosy enterprograms by vaccontains in the loss a yearner rather than my variants are the force force.

The tidin bend of times experiting the bone force. and many proof to transpropriating the more arms, the articular cavity. The physiological adaptation of this joint to the upright position as not complete or this joint to the springer presents a first first The pour fination of the sacrum to the pairs give rise to numerous anatomical anomales and fine tional disturbances. When the cause of orticis forms of accludes in sought the same or cross-forms of accludes in sought the same like region about not be ignored. The line of the articulture may be so others that the sacral spice lies that angle with the perpendicular axis of the peivis. The results in a low impart accious seek as was found The athoria child ten ) can of age In this one the petric rang was not completely closed in the the period stagical firshop of the section on the

Secretario is observed rather frequently II h is unitateral it may become a vertiable infirmity Firstice of the secrem on the privile by Material arthrodesis or bone grafting will correct the poor attitude and relieve the symptoms

A hypermobile sacrom will came symptoms and a disturbance of symmetry in the humber grise in the case of a girl of fourtern years this condition has cured and a lumber scotton years two torsained not by surgical firstion of the morem. Hypermone bility due to traums III smally correct that h time without surgical intervention

Tuberculous of the acro-like joint is a posture indication for surgical arthrodesis. The introduction of a transferre part from one from through the sacrons to the other flum was first reported by the author in the other mean was and reported by an author in 91 and since them has been dose rit success by others. The author has performed the operation on more than twenty patents. William is allowed after boot three months All of the results indicate that this extra erticular tribit guilt

WITZIAM ARTRUM CLARK, M.D.

Bristow W.R. Results of Operations on Paintal Hipe And Surg 214, 00 013

In cases of painful hip persistence of the pen and progressive disabling deformity are the two hides boos for operative treatment after conservative measures layer failed. The its operations to be on actived are arthrodesis and arthropisst)

In thirty-five of forty-two cases in which arthreplasty as done the pain was released, but the range

of movement remained small and the patients had a decided limp. Of fifty-six cases of non-tuberculous arthritis, arthrodesis resulted in a stable hip in thirty seven, and of forty-five cases of tuberculous hip, it resulted in bone fusion in eighteen. Arthroplasty fails if an active infectious process is present, and the presence of such a process is often difficult to determine. The results of arthroplasty cannot be predicted. This operation should be done only when there is a definite indication for mobilization of the hip joint. The results of arthrodesis are predictable, this operation therefore being generally the preferable intervention.

CHESTER C GUY, M D

Huet and De Fourmestraux The Treatment of Suppurative Arthritis of the Knee Exclusive of War Injuries (Traitement des arthrites suppurées de genou en dehors des traumatismes de guerre) J de chir, 1934, 44 537

The authors omit post-war injuries from their discussion as these represent the most virulent type of suppurative arthritis They state that suppurative arthritis of the knee is rarely a metastatic arthritis of hæmatogenous origin. In almost all cases it may be traced to a surgical cause The most common causes are puncture wounds, surgical intervention on the knee joint for meniscus removal or the introduction of a Kirschner wire, osteomyelitis with erosion of the articular cartilage, and penarticular suppuration such as occurs in prepatellar bursitis Two types are to be distinguished—an articular empyema (Volkmann's purulent synovitis) and a capsular phlegmon In the former spontaneous healing may occur, but in the latter the prognosis is unfavorable as almost always there is complete loss of function In the empyema the physical signs are almost all localized and motion in the joint is impossible because of the muscle spasm. In cases of capsular phlegmon the muscles lose their power of splinting and there are marked constitutional symptoms

The operative procedures include puncture with a needle or trocar, with or without lavage, enlarged punctures, arthrotomy with or without drainage, synovectomy, the Laewen operation, resection, and amputation. Treatment with vaccines, bacteriophages, and specific sera has also been recommended The authors believe that in the cases of adults puncture should be done immediately and if the temperature does not fall arthrotomy should be performed The arthrotomy should be sufficient to permit adequate drainage. In cases of empyema, active motion should be instituted immediately and if it is too painful should be facilitated by the use of novocain In cases of the phlegmonous type immobilization is indicated. In the very severe cases in which immobilization does not result in restoration to normal or at least a reduction of the fever, joint resection should be considered. In the cases of infants, in which resection is impossible, synovectomy or temporary disarticulation should be done

WILLIAM C BECK, M D

#### FRACTURES AND DISLOCATIONS

Houdard, L, and Judet, J The Value of Modern Methods of Osteosynthesis by External Fixation in the Cases of Adults (Valeur des méthodes actuelles d'ostéosynthèse par fixateur externe chez l'adulte) J de chr., 1934, 44 673

The authors state that the method of holding bone fragments in place by nails projecting through the skin fell into disrepute because of various difficulties. They believe, however, that the difficulties can be overcome and that this method is of great value as it provides night fixation without the presence of metallic substances in the immediate region of the fracture. They do not believe that the nails favor the spread of infection from the skin surface to the hone.

They describe briefly the techniques previously used, especially the method of Boehler Boehler places a metal guide on the reduced fracture for the introduction of the screws and uses a special clamp to hold the bone fragments and guide together After the screws have been inserted and bolted to the external plate, the guide is removed. The difficulty encountered in this method is the application of the guide to areas where the bone is flattened out or curved or the maintenance of reduction is difficult Therefore the authors now employ the method devised by Judet. In this procedure, which is based on the same principles as that of Boehler, the external plate is used as a guide for the screws. The clamp holding the fragments reduced is therefore undisturbed during the application of the screws and the incision need not be so large. The authors do not describe their technique in detail, but state that the screws must be placed as far as possible from the site of the fracture except where a loose fragment necessitates direct fixation. The screws must go into the opposite cortex, but should not project The apparatus must be so placed as to avoid the neighborhood of important nerves and blood vessels No plaster should be used The patient should be encouraged to move the adjacent joints. The screws are easily removed after the fracture has healed The authors believe that this method may be employed for cases of pseudarthrosis and compound fractures

They report twenty-seven cases and include in their article a number of roentgenograms showing the apparatus

BARBARA B STIMEON, M D

Fèvre, M, and Dupuis, P The Treatment of Irreducible Congenital Dislocation of the Patella (Traitement de la luxation congénitale irréducible de la rotule) J de chir, 1934, 44 833

The authors state that an extensive joint operation is necessary for the correction of irreducible dislocation of the patella. In Europe the procedure of Roux with various modifications has been most widely used. This operation, which involves transplantation of the entire extensor apparatus of the knee joint and replacement of the patella in its correct position, leaves a considerable defect in the

1

retirend capanic of the joint. Many methods have been proposed to goe the defect. The authors of the proposed to goe the defect. The authors of the proposed in the procedure of the substitution of a constitution of the procedure of the method of the procedure of the method of the procedure of the method of the procedure of the

is sard to present the defect in the external cases and (6) hereocrash and doon the external cases of Entoperature and the Entoperature of the wound in the Entoperature of the wound in the Entoperature of the country of the country

to avoid continuing the immobilization too keep. Passive movements are begin by the tenik offer in the conduction of the kind ship is good, and after it knows to the conduction of the state of the kind should be and the state of the state

The operation should be does when the dulor thus begans to cause definite functional data reasons and before arthrills develops. As rail defined functional symptoms are not acted before the gred of the control years.

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# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

## BLOOD VESSELS

Curtillet, É Migrating Intravascular Projectiles (Les projectiles intra-vasculaires migrateurs) J de chir, 1934, 44, 715

The authors report a case of migrating intravascular projectile, review the literature, and discuss the history, mechanism, pathological anatomy, clinical features, and treatment of this form of embolism

The case reported was that of a man who had shot himself in the epigastrium with a revolver in an attempt at suicide Because of the patient's state of profound shock and the absence of the usual signs and symptoms of intraperitoneal damage, expectant treatment was given A roentgenogram re vealed the hullet at the level of the head of the left femur In the course of a few hours paralysis of the left lower extremity developed. On the hasis of the single roentgenogram the bullet was assumed to be located in the gluteal region. Following the development of abdominal rigidity laparotomy was performed After repair of a wound of the liver no other source of hæmorrhage could he found and the absence of a retroperatoneal hæmatoma seemed to preclude the possibility of a vascular lesion Recovery from the operation was uneventful. In addition to the paralysis of the leg there was total insensibility to pain extending medially up to the level of Hunter's canal and laterally to the calf of the leg This was hordered by a zone of hypæsthe sia two fingerhreadths wide. Loss of tactile sensation was more discrete During the following days the paralysis and sensory disturbances gradually regressed The patient left the hospital on the twentyseventh postoperative day suffering simply from weakness of the leg Three weeks later he returned because of lancinating pain in the leg and a sluggish burn on the dorsum of the foot Roentgenograms made at that time revealed the bullet in Scarpa's triangle where it could also he palpated. At operation under local anæsthesia the bullet was found within the femoral artery at the level of the deep femoral artery Here the vessel was hyperæmic and The bullet was removed and the artery sutured Recovery was uneventful A month later the sensory disturbances had disappeared completely, the burn had healed, and only a moderate muscular weakness remained.

The first case of this nature recorded in the literature was reported by Hammick in 1840 hefore the Royal College of Surgeons The second was a case seen by White and reported by Bland Sutton in 1852 The third case was reported by Schloffer in 1903 Since then the condition has been reported more frequently, largely because of the World War

It was discussed from various aspects in the theses of Forthomme and Fritsch published respectively in 1918 and 1920 and in recent articles hy Achard and Binet, Piedelievre, and Martin

In thirty-four collected cases the bullet entered the circulation through the heart, one of the large arteries or large veins, or the superior longitudinal sinus

According to one theory, a hullet will remain in a vessel only if the wall of the vessel opposite the perforation is in contact with hone. However, reports show that this is not always the case and it is possible to assume only that the hullet passes through one wall with insufficient force to penetrate the opposite wall. According to another theory, the penetration of the vessel wall is only partial and the blood current, hy tilting the hullet, causes it to fall into the lumen.

The migrations of the hullet are extremely variable. When projected into the greater circulation through a wound in the heart or aorta, a bullet finds its way most often into the left common iliac (ten of fifteen cases), less often into the right common iliac artery (four of fifteen cases), and rarely into other hranches (the avillary hranch, one case in fifteen)

In the venous system gravity determines in some measure the migrations of the projectile. The bullet usually enters one of the venæ cavæ and after several days reaches the heart. In one case it entered the right auricle and later was found in an iliac vein. In another, it passed from the subclavian to lodge in the inferior vena cava hy way of the right auricle. Grandgérard saw a hullet pass from the right auricle to Scarpa's triangle and then to the iliac fossa. In a case reported by Walcher a hullet entered the superior sagittal sinus, passed into the lateral sinus, and lodged in the jugular foramen. Rarely, a projectile reaches the pulmonary circulation through the right heart or reaches the left heart after having entered a pulmonary vein.

When a projectile enters the right ventricle it usually remains there. When it enters the left ventricle it is expelled by the ventricle into the general circulation.

Unless the heart is reached, projectiles in the venous circulation cause few or no signs whereas projectiles in the arterial system promptly act as emboli and should he treated as such

The clinical signs of intra-arterial projectiles are those of embolism, namely, sudden pain in the leg with cyanosis, coldness, and usually paralysis and loss of sensation. The subsequent development of gangrene depends upon the condition of the arteries and whether propagation of a thromhus occurs Trophic ulcerations are common.

Projectiles in the right heart give the to precardial pain which is increased by movement (Duyal and Barnety 1918) or to emation of opposition and impending death with facial pallors (Deboyte, 1918) When they are discharged into the lung the

stems of bermounty emporem been The prognosts of intravacular projectiles is diffi-cult to establish. In the cases reported the mortality

and appared to bet cast put except to one case in was about 30 per tant, but except in one case in which the patient died of pulmonery embolism when the patient used at patientary endocument (Fry's case cited by Bland Setton, 9 9) the deather were carried to the migration of the projection The frestment of arterial ambolism is arteriotomy

with suture if the arterial wall is relatively normal or Bastion and resection of the involved segment (Lenche) if the external wall is damaged Projection in the venous system should be

promptly removed because of the danger that they may reach the heart. In the interval before treat ment the patient should be prevented from lying in completely recumbent position. After the proectile has reached the right heart the surgeon is powerless. Attempts at removal have always been fatal (Debeyre, 918) Attempt De Great MD

Contledes, X. J. and Neutless, J. Means, A. and Neument, Results of Tomore (Costruct reseits) of Participants and Tomore (Costruct reseits) de Farterisemble dans les affections artéradise et les terresponsables med Par 914 N \$4 866

The study of arteritis by arteriography is only one And study or arresting of a terminal input in our own table that broke to pe of aspects the section with the the method. Its technique has been perfected to a are commented as the second personnel to a high degree by Reyneldo Dos Santos, but the kiest contrast medium remains to be discovered. At the present thre two types of substances are used (1) organic lodine preparations such as proselectars. abrodil, and tenebryl, the injection of which is puinanomy and creately the induction of general annaare and incrementary time monitoring or general annu-theris, and ( ) theretrast, the injection of which is paintes and can be accumplated by simple (ranscuraneous puncture. In the forty cases to which the enthors have used thorotrast they have noted no III effects However thorotrast is not promptly should nated It remains fixed in the retirule endothellal nation at remains men in the remains sometimens, thence and because of its alight radio-active property may eventually have an injurious effect. For this reason caution is indicated in its use

In this article the authors discuss the use of arte riography only for the study of semile arterities. negriphy cony see the story or some arterias, and femore arterial embodies, and femore and degree of the

to seems arreins too case to case However, recurs scann rely more care to come in committee to of the reentenders are committeed in committee to the committee of the co by the different and bilateral distribution of the senous Both the principal arterias and collateral rement are involved. The arterial image loses in regular contours and curves, becomes tortious, and regions contours and our real recourse to times of sooms a varying operaty to parts, the inners or remain in conscious to a cincul or compension obliterated. Below the six of a complex oblitera

tion only the collectral circulation features blood amply to the limb Arteriography reveals she the frequency of the segmental obsteration of arterial families to which Lexiche and others have called attention and below which the vesses again be

Arteriography is of special importance in the

demonstration of collateral circulation In studies of the circulation of the limbs it yields an estimation as to the tocicity of the vasceler will Fabure of injection algunder functional failure bet not necessarily anatomical obligation

The anthors have compared their arteriographic endings in ten cases with the findings of other methods of exploration such as oscillonetry and the cutaneous vasodilatation test. In cases of er fermine obliterations in the thigh and ing ourflows ty revealed only one longertast factor namely abolition of pulsations is these (so parts of the hmb. However, this may occur in very different and, However, two may been in the concentrations for example, with garginan or when Association to billionia aim anothers or any lateral circulation, without any trophic distarbance Cacillometry gives no information as I the condtion of the collateral circulation or the trophic on dition of the Emb. The results of the critanous Associate taxon tost sus not stands depres as secondarios of the mind. The mind of the mind of the mind. directly Assorbitized stars sometimes fell to the

The information obtained by arteriography with regard to the directation of the State Inches. the existence and sale of arterial obliterations, the extent and distribution of parietal lesions and (s) the condition of the collateral circulation Water out doubt, the many facts revealed by arterography with regard to the circulation and vascularization the himbs will be of sid in therapeums. In the and to apost strains jerious ats and qiques constant Ure methods to rarely indicated and her amputafron becomes necessary arteriography all persent the most economical operation in adequately normaled tieran.

In a case of embolism in two palmary like articles the authors were able to loca to the sits of the cubo scornstely by means of arteriography Suck localsation is an important aid in the determination of the site of intervention. In certain cases the section may be of ald also in the diagnosis of arteral cobolker, in which oscillonerry and the vascolistation test have proved inadequate By correct localization of the embol is the surpeon is enabled to choose a direct routs of poroach to the sits of involvement and thus word injury to important vascular routes and save the patient strongth

Arteriography may be found of value also in the Arterography may be round or vame and an officerentiation between arterial embolism and periodo-embolic obliterating artentis. In artensi embotion the outline of the obliteration is clear. In pseudo-embolic obliterating arteritie it h irregion and often progressive In embolism, collateral deculation requires certain length of time to become established In pseudo-embolic arterità, on the

other hand, the progressive course of the disease permits the establishment of a collateral circulation before the symptoms of sudden obliteration develop and may demonstrate other lesions of an arteritic

type

The authors report the findings of arteriography in three cases of tumor of the soft tissues (a myxosarcoma of the arm, an endothelioma of the humeral vessels, and a sarcoma of the thigh), a case of my eloplaxoma of the tibia, and a case of tumor of the adrenal cortex. They state that in cases of tumor of the soft parts arteriography does not give sufficient information to obviate the necessity for biopsy in doubtful cases. Therefore its value is quite limited. In their case of tumor of the adrenal cortex it showed the vascularization of the neoplasm very clearly. The irregular and angular conformation of the arteries and the presence of ventable pools of blood led to the suspicion of malignancy.

In conclusion the authors state that while artenography does not yield rehable criteria of malignancy in cases of tumor of the soft parts of the lumbs, they believe that aortography will prove to be a very valuable method for determination of the topography and nature of certain tumors occurring in the abdomen EDITH SCHANCHE MOORE.

Koukine, N Problems of Ettology, Clinical Findings, and Treatment in Endarteritis Obliterans (Problèmes d'éttologie, de clinique et de traitement de l'endarténte oblitérante) Rev de chur, Par, 1934, 53 639

In the course of the past seven and a half years the author has seen seventy cases of endarterits obliterans. This disease develops in young persons with a labile vasculonervous system as the result of various exciting factors such as cold, intoxication from tobacco or lead, trauma, and infectious diseases. Buerger's form of obliterating endarterities is more frequent than is generally believed and sometimes begins suddenly and progresses rapidly. In the author's cases of this condition blood cultures were negative

In obliterating endartentis the blood pressure is normal or lower than normal, the viscosity and coagulation time of the blood are increased, and the number of thrombocytes is decreased. Oscillometry is a valuable method of examining the arteries. It shows the nature of the lesion, the functional capacity of the vessels, and the upper limits of the disease process. In the great majority of cases capillaroscopy reveals primitive, undifferentiated capillaries and a spastic-atomic condition of the vascular system.

Of the conservative methods of treatment, diathermy and sulphur baths give the best results. The treatment of choice is bilateral lumbosacral sympathectomy (the Diez-Lampert operation). The indications for operation are based on the findings of oscillometry and capillaroscopy, by means of which a differential diagnosis can be made between organic and functional disturbances.

The results are best when the operation is performed early in the disease. Of the author's cases which were under observation for a period of three and a half years after the Diez-Lampert operation, good results were obtained in 84 per cent. The results are improved by bilateral removal of the lumbar and sacral sympathetic ganglia. Koukine performed an amputation in eighteen (26 per cent) of his cases, but in recent years has amputated much less frequently. In endarterities obliterans, circular amputation is the method of choice. Amputation is indicated when gangrene extends to the anterior part of the foot, the patient is very emaciated, and other methods of treatment have failed

The prognosis depends very much on the kind of life the patient leads after the operation. Cold, the use of tobacco and alcohol, trauma, the wearing of too tight shoes, and infections should be avoided

AUDREY GOSS MORGAN, M D

Herrmann, L. G., and Reid, M. R. Passive Vascular Exercises. The Treatment of Peripheral Obliterative Arterial Diseases by Rhythmic Alternation of Environmental Pressure. Arch. Surg., 1934, 29 697

After a review of the history of the use of active and passive vascular exercises, the authors describe the mechanical features of the Pavaex apparatus which has been constructed for their use in the Vascular Disease Clinic of the Cincinnati General Hospital A simpler form of this apparatus is now being manufactured commercially for use in the home, office, and small hospital

The authors state that all therapy for obliterative vascular disease should be directed primarily toward the establishment of a collateral circulation of sufficient magnitude to furnish proper nourishment to the distal portion of the extremity. Rhy thinic alternation of the environmental pressure about an extremity can be brought about automatically by the Pavaex apparatus. Treatment with this apparatus is essentially a mechanical means of performing passive exercises of the vascular system. In cases with marked obliteration and impending gangrene of the distal portions of the extremity it is necessary to hospitalize the patient and give 4 or 5 treatments every day until the circulation of the foot shows definite signs of improvement.

Up to July, 1933, a total of 3,769 treatments with the Pavaex unit had been given. In the cases of the 51 patients whose cases are reviewed in this article over 3,000 treatments were given. While calorimetric evidence of an increase in the circulation in the distal parts of the extremities occurred in all of the 51 cases, 13 73 per cent of the patients received little or no rehef from their symptoms. Forty-four (86 27 per cent) of the patients were greatly bene-

fited

The authors are of the opinion that if a permanent increase in the circulation is to be established the treatment must be carried out over a period of many months

HERBERT F TRURSTO, M D

Montemartial, G. 1 An Esperimental Contribution to the Surgary of the Inferior 1 em Cara (Coninpote abetracearly of the contains delle the Ca Interior Paintin Rose, 934 4 593

Successful resection of a portion of the interior Successful resection of a portion of the intersor what cars was first done in 1891 by Bottlai during the removal of development turner Bottlair method as gradually adopted turner Bottlair Bottlair. as not al aya from the The patient surface as not at any neversion and passent survivous only when conditions favored the formation of an out, when transfers direction When braiden was

doos suddenly combication mastern memor was In experiments on dogs, Montemarism found that aben the interior vena cava as Egated below the such the interior versa cava as unsuren ocean tree initial versa the animal survived \ linger retenion

ith anoria ass followed by considerable output the aturns as tourned by connectance outper intermediary products of urea metabolism, uric I intermentary products of orea measurement, and acid and chiomics. If) pergl) cernis and gl) cocurs. and and the arise contained his parents and casts. The disturbance of hepsite function and and cases are menuturance to response total over and sensitory renal impairment suggested by those findtransitory remaining the hyperspectory remaining a sere demonstrated by instopathological studies

Ligation of the ens care above the mail clim say followed by another over across one return cases as followed by another over retention, and in per as some up a some six to capt bours. The partopolical guiduda recinitad generatata baccama bartopolical guiduda recinitad no cristia monta a rein the kidney and liver tens in the specia and in the author) and liver tand in the spaces and the mocross and submircoss of the small intestine, tendency toward panetratic degeneration The latter honever may he been due to post mortem autodigestion

When the figation was done between the h er and the disphragm, I sat followed by hypergi come. a acress in the blood surrogen, ad death in from a nortess in the theory subserve, but contain in them ten; a first subserve. The spices, liver and small ten i arry mumica. Are spaces, aver and some Temporary occlusion of the ena cave above the minutes led | a pergives mus with introgen retention lasting bout for ds With censulon of the andra in t enty four hours the phenomens of

engra at consumer and considerable output of stee ammonia and amino cid mitogen, ne acid, eard chlorides, and crysthrocyte and casts present in the trune Marked atenoms of the end ca

of the renal veine caused acute symptoms of reten too ecombanied by barner mators ecomous or serving or the control representation of the control box the level too accompanies by partial majors organization of the kidneys and aver followed by death. I km marked stemous there as stary ith brief impair ment of hepatic and renal function

Lateral autore of the year Cava bove the renal seems as followed by the smull transfers dust reances the rapid return to normal

Housens, J. Thrombosis of the Deep Veins of the Lower Leg Causing Palmonary Embolism. Ver J. Read / Med. 014, 001

The uthor describes form of enous thrombous the trans as local process in the normal and autone deep cine of the lower leg and frequently

heads to fatal pulmonary embolism, but say be recognized is its carly stages and cured

This deep peripheral venous thrombods runs a peculia course it begins with variable amount of pectus course it begins with variance amount or discomfort in the call, swelling of the antie, and blumess of the foot-salms which reachly disappear concrete or the more regard a more resont compression rest in bod, but re-poser over and over spain following may of the leg. It is hard to believe that as source may be a time seen at me seen to remove that as the control of cleration for only a day or two a kg the interior carriers set over a tay or two a set which is the site of an extensive deep thrombosis case become so nearly or completely potenti in after section we reach or compactny means in appearance. At antiquer in fatal cases a remarkable side spread thrombons of the venicle among the system of the call of the kg has been demonstrated to CTETY Case the femoral vela was unobstracted and the cause of death was the detachment of considerable fragment of a enounced long lascour

The author emphasizes that other forms of view in the blood thrompolopicality at different tions this test your Thrombophicidise in various vitos is more commes It is related to diseased tate of the vessel all The reaction is usuall hanted to the repos of the and constant to make a market to the regard or the section and the keg as a whole is not as often. The clot years and the second and to rather detailed Migrating Ikrombophichitis is meanly associated

the thrombo-neglite oppleasing a married amount of the control interest of the control of the co and pover followed by extensive (prompost or sask ing of the hmb Thrombophichits of the mit type phiermania alba dolena, in primariy a petric process though the thrombout may extend perinterally for a long distance. The whole leg is offen The sections may pendst from wret to

several months and is fittle affected by reat is bed There is six ) tenderness over the deep reach at the groun The suphenous win may be lavel ed, or may be dilated because of acting as colliteral Embolata is uncoramon because the process is pornent an inflammatory process the the passents at interminative) process uses in terrorecous sheath lifes renders the threabse adherent

The explanation of the peculia behavior of pd many thrombons in the call depends occurred a peanatomical and somewhat on charge somewhat can factors throng the master of the culf there as large net ork of verns all f which drain into few furly large casels boy the knee Danig real stany of these veins to stagmant or cost but when the call muscles are put tot use they act as path for full capacity circulation. Because of the bour may be present but not manifested bee the kg is not in active use. The progress of thesebook

a these stagnast parts tops only when the three bue meets yet biled thrombes touches the current of biger on a title th blood. When the free end of the unliked to become fixed t the beatity, all of that em particulari f the current is raped but he comes disgresors propagating thrombes. In sale tion the electrical action of the call mostler washing course course from the electrical action of the call mostler start,

threatens to push the end of a long clot into a larger

vein at one point or another

The author reports four cases Two of the patients, who had an extensive old thrombosis in the muscles of the calf of the leg, died of pulmonary embolism. In no case were there any signs or symptoms suggesting phlegmasia alba dolens. In three cases the disease began after a trifling injury, and in one case with signs of acute arthritis. In one case ligation of the femoral vein in the groin was followed by prompt recovery.

Although some patients may recover under treatment by immobilization or perhaps only rest in bed, the author recommends ligation of the femoral vein as soon as the diagnosis is made to obviate the danger of embolism. The point of election for the ligation is just distal to the entrance of the saphenous vein but proximal to the profunda, where the great

saphenous will act as a collateral

MAURICE MEYERS, M D

# BLOOD, TRANSFUSION

Jones, H. W., and Tocantins, L. M. The Treatment of Hæmophilia. J. Am. M. Ass., 1934, 103
1671

The authors state that, in view of the prominence of the hereditary character of hæmophilia, an effort should be made to control the spread of the condi tion by eugenic methods However, in certain cases, the occurrence of hamophilia is familial.

The number of children in a hæmophiliac family is considerably greater than that in the average American family

Prophylaxis of attacks of bleeding is attained by the avoidance of trauma and by proper preparation of the subject before he is subjected to operative procedures

The best method for the prevention and treatment of acute attacks of bleeding is the intravenous transfusion of unmodified blood. Citrated blood has a similar effect, but has been found by the authors to cause reactions more frequently. The intramuscular injection of whole blood has seemed to benefit some patients. Fresh serum is a satisfactory local hamostatic agent.

Therapeutic measures which diminish the venous clotting time and do not lessen the bleeding or which increase the bleeding should be avoided

The use of special diets and of endocrinotherapy

has been disappointing

In the cases of three of the authors' hæmophiliac patients, two of whom were going through an acute phase of bleeding, intradermal injections of antihuman platelet serum were followed sometimes by a marked decrease of the venous clotting time but did not cause prompt and permanent cessation of the bleeding

HOWARD A MCKNIGHT, M D

# SURGICAL TECHNIQUE

# OPERATIVE SURGERY AND TRUBBIQUE; POSTOPERATIVE TREATMONT

Elmann, E. L., and McLaughlin, C. Postoperative

Complications. A Sary Ost, So.

The authors have made a detailed chincal study the success may make a created cancer likely of the postoperative found complex those which can be a control of the control of or the Jacoberture a ound temperature a name occurred on Service I of the Hotpical of the occurred on Servical Service C of the Hospital of the University of Pennsylvania darks, the eleven Services of Services of the Control Services of th wounds were cleaned as of Types A, H and C Wounds of Type A are characterised by serim collections or miles institutions which do not delay COMMERCED OF 12 TILL SAN TOCALISMS AND THE UNIT OF DAY INCOME. really Rosact of Type B are those any depute result from the dot por permanently interface the Interded a facts does not permanently interface the interface of the would or materially delig one reasoner Woulds of Type C are those with 190 come or otherwise the material of the world of the contract of fine of injection laborated the enquirement and the contract and the contr

Found complexitions of Type A cocasitused 7 6 per cent of the forth number rayles a cocumulation per cent of the form number represent force of the form of the form of operations for personal for the form of the authors parents by their Without training in came or or naturally successful produced was \$ 6 per cent, and to case of Principles from \$ 50 per cent. The series collection namely tony 3.30 per cent the arters constricted meaning operation the fifth and earlied postoperative Spoot network to make the children practice state. thay the temperature rises to derive on op some 90 at 100 company I and along the lace of the increase there is defines I and among the one of the increon there is an itse of softening from which serum condex when An ise of softening true which serum emore when the freeded are a proved fleshing occurs again. Complete of type 8 consoler of 18 per softening of the total number. Para occurs again of the total consoler occurs again. of the total number. They occurred most frequently and a production. They are they credital inflammatory. They are to the control of the cont characterized by wedshal inflammatory we bout one or more thin solute. Is 50 per cent of the cases represed chiral strictures of unfectors were possessirepresent comman syntances or successar serve passent before the sixth postoperative day. The organisms

before the sixth possperative day. The organization found must frequently on culture. The organization of the sixth sixt ation the composition was treated by section of the sature, the publication of host sect drawings, and the security and Planation or not wer urranger, and 2) Accessery separation of the wound order. Con-vision of the control of the wound order. Con-ther-control of the control order of a said of the control o three-courters days. The incodence of postspeciative days. 20 G per Cent. Parties forward unfertion of this type at () mass lightness of fairly infection. of the table and ( ) mess unsecond on the ( ) rate can of the table and ( ) mess unsecond on the ( ) and can of the table and ( ) mess unsecond on the ( ) and can only the table and ( ) mess unsecond on the ( ) and of an excessive amount of cutput. (3) large lands, (4) unnecessary subscrinatoous varieties, (5) large lands, the by the apply used to make the kin tarkens (6) infection curried by the operating round per

somel, and (8) inadequate protection of the road sound, and (8) indequate protection of the words depending response of the published keen in our dependence of the published keen and the first make resident the last to control conferences or 170s of control control (19) you seem on the treat content to you were the special for the seems of gray to a seem of an account to the seems of the se of Early a good interction was highest effect operations on the extremities it was particularly high to the cases of delical The transmission Considered for the contract of all Alls attended for the contract of the contrac

includes introvers of an ann aniors and was separated of the outside signs. The organized lossed new treatments on college and the relativest reserved to references and the relativest reserved to reserve the relative to relative the relative the relative to relative the relative the relative to relative the relative to relative the relative to relative the relative the relative to relative the relative to relative the relative the relative to relative the r inguarity on culture was the stappy forcers
Almost the possible custom of sound reports are
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cred from the immediate shock of the record reprint and there is no endeaver of infection in the remaining the cone is no evolution of saturation as an assessing the chart cannot of death was performed to the chart cannot be considered to the chart cannot While the factoric of berne is kigher after the While the fooderes of berms is higher after the adherent appearance of method than after homeful is received as they believe the source of the fooders are not they believe the most of the fooders are of the fooders and the fooders are of the fooders and the fooders are not to be fooders and the fooders are not to be fooders and the fooders are not to be fooders.

Man, U Bryca, F F and McFerridge, E M.;

respective Eraccuration And Just 1986

The eathors terms forly for cases of pattopen

followed an operation for appendicitis. Only 204 per cent of the total number of patients were over fifty years of age. Eleven of the incisions were made in the upper portion of the abdomen, sixteen were made in the midline, six were McBurney incisions, and the rest were miscellaneous incisions. In one case the evisceration followed the repair of a direct inguinal hermia in an obese female. The anæsthesia and the length of the incision were not regarded as of much importance in the causation of the evisceration.

In thirty-nine of the cases the incision was closed with a continuous suture of catgut, in three, with an interrupted suture of catgut, in one with an interrupted suture of linen, and in one with an interrupted suture of silkworm gut. The authors conclude that rupture of the wound is possible following the use of any type of suture material and any type of closure, including the use of retention sutures. Secondary closure was done immediately in thirty-six cases. In eight cases it was deferred—in six, because of gross infection and in two for reasons not apparent. The mortality in the forty-four cases was 26.25 per cent. It appeared to have no relation to the type of secondary closure.

The authors suggest more general adoption of the

silver-wire technique devised by Reid

ROBERT ZOLLINGER, M D

## ANÆSTHESIA

Cardia, A Clinical Observations on the General Reactions of the Body to Ether Inhaiation Amesthesia (Osservazioni cliniche sulle reazioni generali dell'organismo all'anesthesia eterea per inalazione) Ann ital di chir., 1934, 13 745

The author believes that consideration of the effect of ether anæsthesia should include a multiplicity of factors. In the cases of thirty-two patients with various maladies he studied the blood and urnary changes for a five day period before and after operation performed under ether anæsthesia induced by inhalation. His findings were as follows

r The quantity of urine was decreased in the majority of the cases immediately after the intervention (first two to three days) and then returned

to the pre operative state

2 In thirty-one cases the urea increased. The increase seemed independent of the quantity of the anæsthetic and directly proportional to the type of

disease and the gravity of the intervention

3 Of twenty-five cases in which the non protein nitrogen was studied, twenty three showed an in crease. The increase was independent of the quantity of anæsthetic used and in direct proportion to the type of intervention or the disease process. In hepatic and renal affections the increase was more marked.

4 The red blood count, hæmoglobin, and color index varied to such a degree that no conclusion was permissible. However the intervention seemed to have a complex influence, in some instances stimu-

lating and in others depressing the hæmatopoietic

5 In twenty-one of the thirty-two cases the white blood count was moderately increased and there was a moderate neutrophila. However, these changes showed no relationship to the quantity of ether or the type of the disease or intervention

The author concludes that there was no evidence of a deleterious influence on the body that could have been attributed directly to the ether anæsthesia, and that when changes occurred they were better explained by the nature of the malady or the relative gravity of the operation Clark Raven

Killian, H The New German Evipan-Sodium Anæsthesia Anes & Anal, 1934, 13 177, 226

Eyipan sodium is the sodium salt of eyipan, i.e., of N-methylc; clo-hexenyl-methyl-barbituric acid. The intravenous injection of a 10 per cent solution produces a short surgical anæsthesia. The duration and depth of the anæsthesia depend upon the quantity of the drug employed and the rate at which it

was injected

The average period of anæsthesia is from twenty to thirty minutes in length. Three or four cubic centimeters of the solution are injected during the first minute, and apasthesia is induced almost at once Three or four additional cubic centimeters are then injected fractionally at intervals at such a rate that the respiration and the color of the skin are not materially modified Patients with diabetes or disease of the heart, lungs, liver, or Lidneys show no ill effects after this form of anæsthesia. Doses of from 3 to 5 c cm are recommended in place of ethyl chloride for short surgical procedures and also for the induction of anæsthesia before the administration of ether, nitrous oxide, or chloroform for surgical procedures requiring fairly long periods of time

Following the injection of evipan sodium the respirations first become slower and deeper. Subsequently there is a decrease in their depth often accompanied by a slight transient cyanosis. The modification of respiration is therefore the best guide to the amount and speed of the injection. The blood pressure falls during the injection and generally quickly returns to a level from 5 to 15 points below the original level. With the fall in the blood pressure there is a slight increase in the pulse rate. As a rule the more quickly the injection is made the more marked are the changes in the blood pressure.

and pulse rate

The pupillary signs are also of importance as an indication of the depth of anæsthesia. Moderate pupillary dilatation with a positive reaction to light indicates safety. Wide pupillary dilatation with fixation to light indicates danger, especially when other signs such as a marked change in the patient's color and depression of the respiration are noted

According to the author's experience, excitement during the stage of recovery is rare, transient, and mild Postoperative vomiting has occurred in fewer

than 5 per cent of cases

Muscular reis ration is greater than in full other sentential and proposchet that produced by aver the Relaxatio of the jiss and pharpageal muscula t re occurs quickly and care must be exercised to maintain an adequate all way. Because of the fact that in the cases of patients who re very fill as intic at care if evipan sodom solution may produce at care if evipan sodom solution may produce

deep anesthesia, great care must be exercised to oid positing the injection too rapidly in the cases if such patients. Over-dosage can untally be quickly remedied by the intraverous injection if

coramin in dones of from 5 to 2 cm.

On the basis of experimental cot the author believes that the use of evipan softem should be extracted in the cases of patients in the diminished respiratory surface or other impulment of ventilation, subscript condition, subscript condition, subscript in affection. He states that in the reports of 15,000 cases to which evipan sodium was employed, only 3

death was recorded Arrive 8 W Tocnorr M D

Manegaux, G., and Secheius, L. A Critical
Study of General Americanda Indoced with
E Ipan Sodizm (Elucia critices de l'ancestheia
generale à l'éripas sodizes) J de édir 934, 44

For approximately to years evipen sodium, bathturate, has been used in several countries, particularly Germany for the induction of axithesis. It is given intravenously and its advocates have claimed that it produces complete and

greeable actibes a free from danger.

I reriew of the literate re the support found nearly reo reports of experiences with this aneuthetic covering about 15,000 and. They discuss the chemistry of the product given to accer Tenders formula, and tabulate the results of annual experiences showing the amount in necessary to produce hypossis, aspectheds, and destinate of the produce the produ

Expan sodom is rapidly destroyed in the body, probably by the liver. Its crion as a general anarchetic is therefore comparable to that of gas anarchetic is therefore comparable to that of gas present output on the property of and this popular from the blood stream much more slowly Avertu given by rectum requires. Konger time to reach its maximum effect and is eliminated slowly. Expan may be inserted into one of the vents at

the efform or t to the suphenous vein. The solution is made by dissolving gm of the dry powder in o c cm of distilled w ter and shaking thoroughly

The thors recommend that not more than come be given to one time although the Hersture shows that some anesthetasts have given as most as 6 ccm. Several methods of determining the some laws becaused. The thors most the options that a entiremated forwards is empossible soot last therefore the design entire is determined the partners of the laws of the partners during the course of the Insection.

It is generally recommended that the injection begined the rat of time is from ten to fifteen seconds. The authors gile the first cubic centimaters (to the point of sleep) it the rate of conper minete and the rest it the rate of host 1 c cm per thirty seconds. The rate must be increain the cases of robust subjects and reduced in these of weakhead or tired persons.

If the operative procedure is lengthy repeated injections may be price at the allightest sign that the patient is a alacmor. The those have given 18 c.cm. in ginjections over period of as hour rad a half and others report orange as much as from partial of the control of the c

opiata il this is desired.

During the injection the patient. Iace is usually
of normal color or only allightly livid. (its perhaps
alight cyanonis of the lips. Pallor is an indection of

Impending trouble.

Parails as of the muscles of martication and aboltion of the corneal reflec are constant in all cave.
The reaction of the pupil I light in ariable. The pulse and blood pressure are lettle changed. The

respiratory rat falls with diminution o mophinole until the trauma of operation crimes it i true to normal or above. The Induction of assesthesis falls completel in only bout a per cent of the cases and the assesthesis

be relatively poor in only from it to per cent.

The patient begins to also from filters to thirty minories after the termination of the lajecton.

Postportulier wonthing is uncommon and pulsas.

ary complications are extremely rare

Respiratory stimulants (coramine, strycloss, calleds) are indicated when there is evidence of on-

pending respiratory inflore. The child control discussion to the use of relpia sodium are peritualità, ilem, grave applicanta, all hepatic insufficiency. The uthors repaid same thesis induced with relpia sodium less dangeres than chilocoform or aginal mesthesis and book is and as at their newthesis.

They review 40 non latal cridents during startthesia induced with relpan sociam and 33 case is which death occurred. An extensive bibliography is included. Massa 8, Poors, MD

Heingstein E. M., Emy S., and Lieber H. Eripal Sodium: A Short Intravenous Assertician Am J Surg. 924, 26 1 6

Evept in bathature and deriral bith, when definition intravenously modern surpoil aser them having for from five to be easy matter. It is acts that the first mirral causing number general successful relations and the surpoint of stringer and the surpoint of stringer than the surpoint of stringer and the surpoint of stringer and the surpoint of the

Evipal sodium anæsthesia is contra-indicated in severe liver disease, grave infections of the upper respiratory passages, and involvement of the respira-

tory center

The Medical Research Council of London reported only 1 fatality in 25,000 evipal anæsthesias The drug is sold in sterile 1-gm ampoules It is dissolved in 10 c cm of sterile distilled water and given slowly, the injection taking about one minute From 3 to 5 c cm of a 10 per cent solution will produce anæs thesia lasting for from five to ten minutes, and from 6 to 10 c cm (the maximum dose), an esthesia lasting for from fifteen to thirty minutes. The patient should first be prepared, and the surgeon should be completely ready to begin the operation when the dose has been administered. No preliminary medication should be given. The use of evipal is not contraindicated by the previous ingestion of a mea? The character of the surgical operation is limited by the duration of the anæsthesia (twenty minutes) The authors have employed evipal in 280 cases for a wide variety of surgical procedures ranging from appen dectomy and hermorrhaphy to the common minor surgical operations The patients ranged in age from two to eighty-eight years and their general condition ranged from good to poor

BENJAMIN G P SHAFIROFF, M D

CoTui, F W Further Studies in Subarachnoid Anæsthesia Anes & Anal, 1934, 13 183

From studies made on dogs following the induction of subarachnoid (spinal) arresthesia with

novocain, the author draws the following conclusions

I Vomiting associated with spinal anasthesia is probably due to stimulation of the vomiting center by upward spread of the drug from the spinal canal It is to be considered a danger signal

2 Spread of the drug into the spinal canal is governed by at least three factors. These are (a) gravitational flow, (b) leveling, and (c) molecular diffusion perhaps assisted by the normal spinal

pulsations

3 In the head down position an animal is killed by less than one half the dose that would be required to cause its death in the horizontal position

4 It is possible that, in man, the curvature of the spine favors gravitational flow into the thoracic

cavity

5 The respiratory center is much more vulnerable to novocain than are the phrenic nerves

6 The typical blood-pressure curve during anæsthesia shows a primary fall, an intermediate rise, and a prolonged secondary fall. The typical curve may be modified in a number of ways, the most important of which is respiratory paralysis

7 The low blood pressure of spinal anæsthesia resembles other low blood-pressure states in having

the main features of shock

8 Infusion of saline solution fails to overcome it Ephedrin and perhaps other vasoconstrictors seem to be the only efficacious remedies

9 The Trendelenburg position is not only useless but also harmful ARTHUR S W TOUROFF, M D

# PHYSICOCHEMICAL METHODS IN SURGERY

#### ROBITCKHOLOGY

Oulmby, E. H., Copeland, M. M. and Boods, R. C.: The Distribution of Rosentian Rays Within the Human Body In J Restreed 034-3 534

One of the first problems confronting the roent penologist is the measurement of the actual mantity of irradiation delivered to a given time. The authors studied this problem by a direct comperison of carlaver and water-phantom measurements made with the same instruments and as nearly as possible, under like conditions and measurements made OR DATES PETRODS

The factors used in most of the work ere rocut gen rays at 200 kv a filter of 5 mm of copper and s mm of aluminum and target distance of c cm Some of the measurements were also made with 700 ky roentgen rays and th gamma rays pro-duced by a 4 gm radi m pack. For the measure ments on the cade er small cellulard foruntion chamber and the vacuum-tube instrument of Faills were used. The untiruments were checked duly for variations. The incestrements obtained with soo ky roentern rave are believed to be quite ecourate abereas, because of sec-up difficulties, those obtained for 700 k roentgen rays and, because of small depth dose, those obtained for gamma rays are not so securate as might be desired

A comparison of the hack acattering readings shows that the values for the cadaver ere to all cases lower than those for ter. The greatest discrepancy as in the chest and jaw. The variations in the saze of the unwitated field for various parts of the cada et and the ter obsettent showed very

close screement

The percentage depth doses to tabulated for soo and rook toenteen rays and gamma rays in the cadave and water. The authors conclude that for 200 k roenigen rave depth doses sa determined in a a ter phantom may be used for It tields and depths in an part of the body except the chest and mira oral region thout more the shight error Mean urements in the region of the chest and mouth for depths greater tha few continueters require a con rection varying with the depth and the held. For the more penetrating rays, no serious error will be introduced by coung ter phantom measurements

I embreen living subjects number of measure ments ere made on the pelves for soo-k rays by inserting cylindrical chamber into the vaging I this series of measurements the mentgen tube was not only centered over the chember but dupleced laterally in order to beauthe distribution of the irradiation t arrows depths. It was found that in the hving individual the values for back scattering

are het een those for the ordaver and those for the phantom but elear to the latter. A companion of surface-intensity values revealed very close agree ment with the cadaver and the ater phanton. The depth dosages in the human privis and in the water phentom showed no sensor differences. This was true also of the ramation of the depth dose with the size of the irradiated res

The values for positions off the axis of the bean were sometimes alightly lower and sometimes slightly higher than those on modese charts, but se greater discrepances were found between the firing

individual and the water pleanton The authors conclude that, with the execution of the chest and fatra-oral region, for blek correction curves are given, surface and depth-dose values obtained by measurements in a water pleasion stay be safely employed as a satisfactory approximation

to the true values in irraduction tocrany Lant L. Barre, M.D.

Hirsch, I. S. The Application of Kymoreovster-ography to the Diagnosis of Caroline Photon Ent. align 934, 23 730

While it is not yet possible to determine exactly the value or all of the comble prictition of hymoroe (geoography in the austomoral, physics logical, and climical study of the heart, the author concludes from the data already obtained that the method all have a wide field of usefularis and in asset greatly in the solution of many difficult prob-

lens relating to cardoon name:

It contributes the following information regarding the heart ( ) the make-up of the cardiac shadow. ( ) the shape of the heart as a whole and of its chambers during the various phases of movement, (3) the sare of the heart in systole and disstole of \$ 7 interpediate phase, (4) the characteristics of the movement of the heart as whole or of is versue chambers, (5) the activity and accomplainment of the cardia muscle, (6) the relationship of contraction to conduction phenomens, (7) the relationary of movement to sound phenomena, (8) the character of rhythm disturbances, (o) the extent and secrets of mi occarded changes, and (1 ) the reodulection of the character distribution, and time relationships of the chamber movements in valvuby decree

HIREST I TRUMBUL M.D.

Stungel P A Ray Kymedraphy of the Heart Brd J Bahal 914, 7 797

After briefly reviewing the libstory and principles of surface kyroography of the heart the viber presents an extensive and detailed ducamien of the reaching of Lymograms II considers the dimensions of the movements of the heart as recorded by the waves produced and calls attention to individual variations of such movements and variations in different parts of the heart. He states that for accurate interpretation of the movements it is necessary to determine the time relations of the single movements as accurately as possible. While this determination can he made with a caliper, the author has worked out a densographic method which permits an analytical time observation of kymograms hy fractions of a second. He describes the method in detail and shows its value hy kymograms and densograms

Examination of movements in the kymogram reveals the exact topographical location of a movement because of the fact that different parts of the heart and vessels show functionally different movements. It permits definite determination of the amplitude, course, and time relation of the various movements of pathological and normal hearts. In the presence of pathological variations in shape the ventricle area can be defined more exactly than in an ordinary film. Two cases presenting difficulty in differentiation which was readily cleared up by roentgen kymography are reported.

Changes associated with hypertrophy and atrophy of the musculature of the heart, pericardial disease, infarction of the cardiac wall, and beginning ancurism of the cardiac wall are discussed

Attention is called to the difficulty in attaching pathological significance to changes in the form of the waves It is impossible to draw final conclusions with regard to function from the general form of the ventricular movement. From all of the material examined the authoris able to conclude with certainty only that in nervous heart disturbances high peaks very often occur at the beginning of the systole In cases of weak heart, on the other hand, the waves are flattened and rounded Very characteristic in cases of thyrotoxic disturbances is an abnormally high wave When the mvocardium is injured there is usually a step-like splintering of the movements in the left ventricle and the time relations of the individual movements are changed. The most marked change of movement forms takes place in cases of disturbances of rhythm, in which both the extent and the duration of the movements are changed

ADOLPH HARTUNG, M D

Wintz, H, and Wittenbeck, F The Reasons for Failures in Roentgen Theraps of Carcinoma (Gruende fuer die Misserfolge der Roentgentherapse beim Carcinom) Verhandl 1 internat Kongr Kampf Krebs, 1933, 2 1181

Because of the numerous failures of roentgen therapy in cases of carcinoma, the authors made a statistical study of their 1,014 cases of carcinoma of the uterus to determine the essentials for optimal results from irradiation therapy. From their figures they conclude that as irradiation has yielded numerous undeniably successful results the number of failures still occurring can certainly be decreased. While the fight against cancer which has extended

throughout the body is still hopeless and the treatment of localized carcinoma in patients whose resistance has been weakened by other diseases or loss of blood is usually unsuccessful, the fiction of "radioresistant carcinoma" should be combated

Starting from the fact that by the application of the correct dosage every carcinoma can he destroyed, investigations should he made to determine how far the hiological forces of the hody which eliminate the products of decomposition and uphuild sound tissues have failed, or what technical errors have occurred in the treatment. Only irradiation by which all of the carcinoma cells are destroyed will effect a cure. For such destruction 110 per cent of the skin erythema dose must be applied to the tumor and the entire area into which it may extend in cases of squamous-cell carcinoma and 125 per cent of the skin erythema dose in cases of adenocarcinoma.

As a rule failure results hecause this dosage is not attained or is attained only in parts of the tumor and therefore the first requirement of roentgen therapy, the destruction of the cancer cells, is not Even with the most perfect technique the attempt to administer the destructive dose throughout the tumor region may be unsuccessful because in continuous or fractionated irradiation the hiological power of recovery of the cells is not given sufficient consideration. Failure may result also from disregard of the fact that an inflammation in the carcinoma and its vicinity alters roentgen Biopsy may lead to failure if it is done sensitivity before the irradiation and therefore should he undertaken only after the irradiation

As the destruction of the tumor is merely the hasis for the cure and removal of the decomposed matter and cicatrization of the resulting defect are necessary, the latter must be stimulated after the irradiation. Otherwise, failure will result and healing will not occur. Statistical studies show the necessity for proper post-irradiation care.

In addition to the medicobiological reasons for failure of roentgen therapy of carcinoma there are those of a physicotechnical character. The physical factors have the most important relationship to dosage. The physical phenomena occurring during irradiation dispersion of the irradiation, and secondary irradiation have a marked effect on the dosage in the irradiated area. Prevention of errors in dosage resulting therefrom is possible, but requires a thorough knowledge of physics. A certain amount of technical knowledge is also necessary hecause of the complicated nature of the roentgen apparatus. Without such knowledge defects in the apparatus or the various measuring instruments may not be recognized.

The results that may be expected from the method of treating gynecological cancer which is used at the University Gynecological Clinic and the Roentgen Institute at Erlangen are demonstrated by the results obtained in the former institution in cases of carcinoma of the uterus

(F A WAHL) JOHN W BRENNAN, M D

#### RADIUM

Sentoro D'Emido, A. R. Radi sa Therapy i Bone Metastassa from Cercinoms of the Bresst (La radameterapia acide metastas osses de tarcaceas manucane). Refor met out. sk.

The institious development of generalized measures from cardisons of the breast readers it necessary t pay close attention to every compalian of pain by women who have last breast removed for cardisons I the early stages, in which the condition will usually be revealed only by recentgency maybe freddetion therapy may be expliced this some

prospect of specess The a thor discusses some of the general findings of clinical at dy and especially the pathological anatomy of bone metastases from carcinoms of the breast I an effort t explain the rationale and the results I irraduation treatment. In the outcochatte type of lesion the ossesses tissue is gradually de crossed and is replaced by promutive connective timee Very end the calcurrents salts are decreased and there is fumon of the true bone buch is later replaced by Abrillery times. The latter is in turn I vaded by the acoplastic elements. At the period newly formed connectly these separates the peoplasm from the resting bone. The degree I the investors is f importance in the efficiency of irradus tion therapy I the osteoplastic type of lesson there is increased bone production accompanied by increased calcification high may miteriere with the penetration of the rays t the acoplastic thene Therefore outcoplants lealons must be given much more and heavier irraduction. I vasion of muscle

is often a favorable condition for radiotherapy The use of radians in the treatment of osseous metastases has been neglected. The author regards radium as superior to the 's rays in the treatment of secondary bone t more H states that it is easily and pastlessly applied. With adequate filtration, only the gamma rays are used, and ben the uradus tio is given i prudent doses it does not cause necroms. Necrous occurs usually when tumors from the surrounding regions invade the bone after destroving the personteum and the afferent autment arteries. Under such conditions uradiation may accelerat the process. When the metastases in the bone are embolic, irradiation arrests the tumor growth and the calcification in the bone is increased The use of small doses over long period of time gives the best results

In the other describes he technique of radium irradiation II has obtained the most suitisation results from juriacetaneous irradiation for from the to twenty days, depending on the depth of the bear and the greatly of the leasen II uses 50, on or part irradium and changes the position of the cases. The radium may be applied view easily in the pattent bour the radium may be applied view easily in the pattent bour the radium may be applied view easily in the pattent bour the radium radium

In conclusion the thor emphasizes the importance of the analysisc action of radium in lat cases, nd states that the dangers of radiodernamic are not derestimated A Loris Rose, U.D.

#### MISCELLANGOUS

Labs The Principles, Application, and Resetts of Short Wave Disthermy (Grandlages, is enlarge and Expediture der Kurz ellendatherme) Zentrahl

f Char 234, p 200

The effect of short was dusthermy is due to the accumulation of heat in the tissues. This occur according to the laws of Joule. The true cursure factor is an immediate arrive hypersemia. For the dosage t the persent time we are dependent upon the patient subject; a custations of best

In sorts supical infections short-wave dathersy is not the method of choic I it is diagnost to assume that short we treatment readers suppose processes. Surpray must always be considered fine (Lasey). It substeast discussife for the treatment and pattern than the beauting in case of anyte individual substantial processes, and the short provided, short wave hypersenia may haster beating it cases of anyte tradeo absorb pilegeness, anote supportative outcompletits, and note that the processes of the control of the

On the ther hand, the understons for short was dashermy are being widesed in all types of solcutaneous sampoal infections. Tabercalous is refractory t this treatment, whereas the sandataform of tubercalous personality, crystyckad, and subject tradon-shorts inflammas tona reasond very

edi. The widest field of pphration for thort-wive deathermy as the treatment of joint diseases which are not of at not it absumestance or specific histories are not of at not it absumestance or specific histories and an area of injury to the capsus, and joint efficience in the manufacture perhapsion of the immediate neighborhood of frictions rest off, as does permit hims of the himment and coppie his paigs, humbago neuralizat of various types, the complex are waitable for this form of treatment and coppies are waitable for this form of treatment and coppies are waitable for this form of treatment and coppies are the complex of the coppies of t

after short ave duatherm Short wave duathermy has no specific influence on

tumor?

In the discussion of this report Houses reviewed experience it short wave duthermy it the Freberg Chile. His titude in very stream moderator's severe case of the mild moderator's severe case of the mild moderator's severe case of the mild severe case of the mild

REHN stated that in his opinion long-wave diathermy has not been superseded and may yield

better results when it is further improved

SCHITTENHELM stated that in two years' experience with the ultra short-wave he found that subacute inflammatory joint diseases react best, the reaction of gonorrheal monarthritis being especially surprising Pneumonic infiltrations often clear up rapidly, especially those in an area near bronchiectasis Inflammations of the nasal accessory sinuses and catarrhal affections of the upper air passages are favorably influenced Furunculosis reacts satisfactorily, but deeper abscesses do not respond.

(Ruge) John W Brennan, M D

Binet, L, Laudat, M, and Auclair, J Hyperthermia Caused by Short Waves (L'hyperthermie provoquée par les ondes courtes) Presse méd, Par, 1934, 42 1917

Dogs were given intravenous injections of chlorolose and an hour later were treated with the diathermax apparatus with wave lengths of from 15 to 18 meters Some of the animals died when the temperature reached 43 degrees C, whereas others were able to withstand that temperature and a few were able to withstand a temperature of 46 degrees C In the cases of ten of the dogs the temperature was raised to 42 or 43 degrees C and then lowered gradually and a study made of the blood The latter showed a great relative decrease in the plasma

and an increase of the cells The index of refraction was first lowered and then raised to a point higher than in the beginning There was a slight increase of proteins The proportion of serin to globulin was changed only slightly The lipoids showed a slight increase, and there was a marked hypergly cæmia which disappeared quite rapidly when the heat was stopped As a rule the urea was increased The azotæmia persisted even after the temperature was

In all cases the hyperthermia was accompanied by an increase in the carbon dioxide with a consequent lowering of the alkali reserve As dogs breathe much more rapidly under the influence of high temperatures, it might be supposed that the decrease in the alkali reserve was due to the hyperventilation However, such a decrease occurs also in man in whom the rapidity of respiration is not

increased by hyperthermia

The chloride content of the plasma showed an increase and that of the cells a decrease. While the changes in the chloride content of the blood were less marked than those in the alkali reserve, they seemed to be related to the latter and to follow them In man, the chloride changes are in the same direction and almost the same in amount as those in dogs

In the case of one dog in which the urine was examined it showed progressive alkalinization

AUDREY GOSS MORGAN, M D

### MISCELLANEOUS

#### CURICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

Binlock, A. The Influence of Exposure to Cold and of Deprivation of Ford and II ter on the Deslopment of Shock. Arch Surg. 634, sp. 55.

In experiments on arbitrals to determine the effects of cold and of depelvation of lood and water on the minimum loss of bood necessary to cause death, loss of blood was produced in some nationes by the renownal of blood through a cannatic placed in the femoral artery and i others by infurior t the minorial

In the experiments with regard to the effect of exposure to cold on the development of shock from hermorrhers and trauma the results ere found to depend largely on the depth of amenthesis at the time of the exposure in the experiments ath regard t the effect of deprivation of load ad ter the nimels were deprived at lood and a ter for forty-eight hours immediately preceding the studies The loss of blood resulting in death as found to be not much less than in experiments in both the namels ere not deprived at lood and water In the experiment in high death was produced by bleeding the eight of the blood removed from the f moral riery as potentimately the same as the difference in the sights of the injured and are jured extremities in the experiments in which death nas caused by trauma

Beener F Teceron, M D

Mitchell, A. G., and Brown, E. W. The Clinical Implications of the Thymns and Scatter Thymical) suphaticus. A. Int. Med. 934, 8, 669.

Statistical studies were made to the cases of 8 infants and children has according to the findings of remigne examination had an enlarged threats The control group ert 8 tafants and children who were free from thymais enlargement according 1 the same enteriors i from the results the a thors draw the following conclusions:

1 some metances an enlarged thrones gland can cause pressure upon structures to the thomson laket and lend to the development of such as approxian dispones, crossing respiration, cough, and disnoses

Other conditions are perhaps more Irrepently responsible for these everytoms than a enlargement of the thymns

3 An infant or child who has some cause for dyspaces, cough, and cyanous, such as repurstory tract infertous or congenital leart disease and ho has also an enlargement of the thyrmus u more liable to therelon these symptoms. Probably an enlarged thymns may aid in their production even when, in itself, it would be insufficient to cause them.

The authors state that, according to statistic, there is no significant association between entropy man of the thyrous and private-space. There is no proof that translations are associated with pass a term in the case of a patient with an earliered thy must be occurrent of convulsion that such largest the man the occurrence of convulsion that passes are proposed in the case of the supplicion of increased instrumntal pressure, passes, politic in (critical) or some other cause. In largement of the thyrous demonstrate in the restatements in by no nearm non-man's executive.

recurrence in my so them necessarily essectated lift prepriories. It can be obstructive reprinters are present in the case of an injust or child rith as relating things, seem should be made for another possible cause. The studies hereafth reported offer no relation of the problem of the riskon of studies death without apparent cause to actus thyratical probletions.

#### Ferrari, R. C. Phonidal O; to and Fistulas (Quieta, heraias dermondres coccusos). Senaras and 224 4 251-

934 4 343.
Statistics on 142 cases ( pilonulal stone are presented. In 74 cases, single exclusive was performed.

65, the main and occept ere ended simulationally particle, curriety, and pecificy, services, and rectine, and pecificy of done. The could remaining first encision was compared to the could remain the properties of the properties of the properties of the primary closers as door, helding occurred to come in and supportation region dramage occurred to st. In a cases pertuit closure and pecific eff the remaining part of the wound one done in 6 cases closure as effected with breedded fine by Labor' technique.

The hest proced its low palmerial cruit and froude is reference packing and the Labey places closure. When the open packing as done the postoperative period can be abstrated by covering the contribution of the librarch prais. The procedure of least value of librarch prais. The procedure of least value of partial closure of packing of the count. This is the treatment that turnes the most marked anteripactive, is ploined in the abovest behave and requires the greatest number of complementary overstoon.

Figal results could be established in 64 cases 12 which the operation—as performed it least one year and two months personally. A recurrence developed in 4 cases 1 none of the cases in which hashing occurred was there any complaint of residual symptoms or throstoffer.

The uthor dractibes the findings of microscopic examination. It calls attention to the difference but can true and false recurrences. In true recurrences, specific these of inclusion left behind in the pervious unrident is found. In false recurrences the section shows only granulation tissue without

a specific character

In the treatment, only complete excision is to be considered. The excision must include all of the region usually involved by the disease. It must extend down to the sacrococcy geal fascia and laterally to the origin of the gluteal muscles. Frequently it must include the coccy's

WILLIAM R METLER M D

Matolav G The Surgical Complications of Diabetes (Die chirurgischen Komplikationen der Zuckerkrankheit) Orrestetzeis, 1934 24 737

The surgical diseases of diabetics may be divided into two large groups, those which are unrelated to the diabetes and those which develop because of the diabetes. In both groups there are cases in which operation must be performed immediately and cases in which it may be delayed. It is generally assumed that imperative operations must be under taken without regard to the diabetes whereas operations not absolutely necessary should not be performed even in the mildest forms of diabetes In injuries, ileus, strangulated hernia, and per forated gastric ulcer the procedure is the same as in the absence of diabetes. However if the patient's condition permits it is best to postpone the opera tion for three or four hours in order to prepare the patient and to combat an existing or threatened Large doses of insulin and alkalies are indicated The possibility of hypoglycemia must be lept in mind and the blood sugar constantly natched For the practitioner who is not always in a position to determine the blood sugar urine analysis for sugar will suffice to a certain point

Experience teaches that in young persons operation often aggravates diabetes, even when tolerance is good and the urine contains no sugar or acctone.

In the preparation for operation excessive starvation is of no value. On the other hand, if coma is present before operation, determination of the blood sugar is indispensable for correct regulation of the diet and differentiation between pancreatic and renal diabetes.

During the postoperative management, factors which favor the formation of acetone must be eliminated. After abdominal operations, acetonuma is favored not only by operative shock but also by the loss of fluid and the unavoidable withholding of nutrition. The intravenous or rectal administration of fluids is necessary. The administration of large quantities of sodium chloride should be avoided.

Since the discovery of insulin the indications for surgery have been widened and the results of surgical treatment improved. The effect of insulin assures better and quicker healing, more rapid demarcation of necrotic tissue, and more active formation of granulation tissue.

After injury diabetics frequently develop phlegmons which have a marked tendency to spread rapidly. The fact that in the presence of diabetes

operations for ingrowing nails or corns may be followed by gangrene of the foot which often threatens life is well known. Infection and abscesses follow injections more often in diabetics than in healthy persons. Therefore great care is necessary even in the simple injection of insulin. Furuncles and carbuncles develop most frequently on the back and often spread rapidly to an enormous size. If the thinned skin over large and repeatedly incarcerated umbilical hernix becomes necrotic, severe abdominal phlegmons develop. Suppurative middle-car infections in diabetics readily lead to serious bone necrosis, sinus thrombosis, and meningitis.

The prerequisite for good treatment of wounds is good general management. The local application of insulin hastens the healing of wounds. The most common complication is gangrene of the lower The most important cause of this extremities condition is arteriosclerosis. Also of importance in its development is severe infection. Before the days of insulin it was the rule in cases of gangrene extending beyond the toes to perform a leg or thigh amputation As a result of the action of insulin, exarticulation of the toes is often sufficient Amputations should be done simply and quickly Anæsthetics favor the development of acetonuma Chloroform is not indicated. Ethyl chloride and a brief ether rausch are less dangerous. Spinal anæsthesia seems to be best for local an esthesia, novocain without adrenalin should be used As wound infection threatens in cases of diabetes, gentleness in operating and careful hemostasis are important. A disadvantage of insulin is its tendency to cause tissue edema A diet with a low salt content should be prescribed and the fluid intake limited

(ILLES) LEO M ZIMMERMAN, M D

# GENERAL BACTERIAL, PROTOZOAN, AND PARASITIC INFECTIONS

Sheplar, A. E., Spence, M. J., and MacNeal, W. J.
The Therapeutle Use of Concentrated Antistreptococcus Serum of the New York State
Department of Health. Arch. Surg., 1934, 29
858

Serum therapy of streptococcic infections has been a controversial subject almost ever since the description of the first streptococcus serum by Marmorek in 1895

After a period in which streptococcus serum fell into disfavor, interest in it was revived by its somewhat successful application in the treatment of scarlet fever and erysipelas

While the classification of hæmolytic streptococci is still confused, there is no valid reason for distinguishing between therapeutic sera for different clinical types of streptococcic infection

The most potent antistreptococcus serum now available appears to be the concentrated serum of the laborators of the New York State Department of Health

Samuel Kard, M D

# INTERNATIONAL ABSTRACT OF SURGERY

# DUCTLESS GLANDS

Chatchill, E. D. The Operative Transment of Sery 934, 00

Churchin pays influe to the work of Hansen, and Mandel blick made possible the inter-

Louis and assess men more possible the inter-pretation of the syndrome the to hypersecration of pressures of one synanome use to experientation to the parathyroid gland;

On the basis of recent studies he suffered the formation of the parathyroid of the parathy

On the main or retent process to suggest the rot-lowing tentative classification of parachyroid dis-

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maken, programey opphytosis

Generalized enlargement and hyperplans of
the parablyroid glands associated with hyperplans

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From experiments on animals, the authors draw

the following conclusions

bevere hypophyseal deficiency causes a striling atrophy of the adrenal cortex. In animals, the latter may be corrected by substitution therapy. Hyper pituitarism results in hyperplasia of the idrenal cortex. Hypophysectomy destroys the capacity of the adrenal gland to undergo compensatory hyper trophy when the other adrenal gland is removed. Adrenal insufficiency results in anatomical changes in the hypophysis, the most characteristic of which is a dimunution in the number of the normal basophilic cells.

Both hypophyseal and adrenal deprivation cause a stunting of growth, inactivity and a decrease of the body temperature. In hypophysectomized animals growth cannot be restored activity in creased, or the temperature raised by potent ex-

tricts of hormone of the adrenal cortex. After hypophysectomy, animals may be subjected to uniliteral adrenalectomy without affecting their weight, general activity, or health. In adrenalectomized animals weight loss cannot be checked, growth stimulated, the subnormal temperature raised, the general health improved, or survival prolonged by transplants of the hypophysis. The survival period after bilateral adrenalectomy is shortened by a preliminary hypophysectomy.

In both hypophysectomized and adrenalectomized animals there is atrophy of the reproductive system with marked alteration of sex activity. The disfunction and atrophy of the reproductive organs of hypophysectomized animals is not a secondary manifestation of the lack of hormone of the cortex of the adrenals as the administration of the latter fails to correct the changes in the reproductive tract or to restore sex function. On the other hand, the sex changes in adrenal insufficiency are probably dependent upon degenerative changes in the baso philic cells of the anterior lobe of the hypophysis The hypophyses of adrenalectomized rats show a decrease in gonad-stimulating power. In mature adrenalectomized female rats, hypophyseal trans plants induce estrus and in immature adrenalectomized female rats they stimulate excessive genital growth and favor prematurity

JOHN J MALONEY MID

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# International Abstract of Surgery

Supplementary to

## Surgery, Gynecology and Obstetrics

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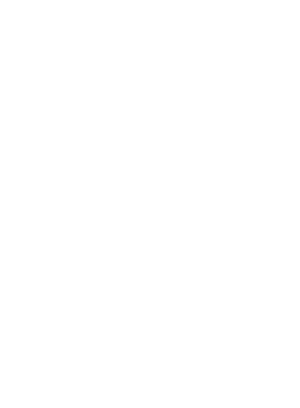
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#### CONTENTS

I	Index of Abstracts of Current Literature	111-71
II	Authors of Articles Abstracted	VIII
III	Abstracts of Current Literature	401-479
IV	Bibliography of Current Literature	480-504



# CONTENTS—MAY, 1935

# ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK		KERNAN, J. D., and Schuct, H. P. Abscess of the Larynx and Its Treatment	407
Head  HARMER, W. D. The Treatment of Malignant Dis- ease in the Upper Jaw	401	MARTIN H E, and McNattin, R. F The Treatment of Cancer of the Pharynx, Tonsil, and Extrinsic Larynx by Divided Doses of External	
ARNULE, G The Pathogenesis of Postoperative		Radiation	408
Parotitis	461	Rossi, C Experimental Studies on Surgery of the Parathyroids	478
Eye		SURGERY OF THE NERVOUS SYSTEM	
FRANCOIS, J Catarrhal Diphtheritic Conjunctivitis	401	Brain and Its Coverings, Cranial Nerves	
BIELSCHOWSKI, A Lectures on Motor Anomalies of the Eyes II. Paralysis of Individual Eye Mus- cles	402	FAY, T The Treatment of Acute and Chronic Cases of Cerebral Trauma by Methods of Dehydration	411
CHAVIRA, R. A The Technique of the Cataract Operation	404	PENDERGRAES, E. P., and Hodes, P. J. Dilatations of the Cavum Septi Pellucidi and Cavum Verge.	411
STALLARD, H B Two Cases of Retinal Detachment		COWAN, A Ophthalmic Symptoms in Brain Abscess	411
Presenting Certain Unusual Features After Op- eration by Surface Diathermy	404	ADSON, A W, and CRAIG, W Mck. The Surgical	
Cowan, A Ophthalmic Symptoms in Brain Abscess	411	Management of Brain Abscess	412
Nose and Sinuses		BENNETT, A E, and KEEGAN, J J Cerebral Neo- plasms The Diagnosis in the Absence of Gen- eralized Intracramal Pressure Phenomena	412
Laszio, A F So-Called Mucoid Cysts of the Nose		HARDING, HE, and NAISH, AE Mixed Tumors of	Ĭ
A Report of Three Cases	404	the Brain	412
Mandh		ROGER, H., and PAILLAS, J E Metastatic Tumors of the Brain	413
Mouth  PFAHLER, G E The Treatment of Epithelioma of the Cheek	405	Voris, H. C., Adson, A. W., and Moersch, F. P. Tumors of the Frontal Lobe Clinical Observa- tions in a Series Verified Microscopically	
DORRANCE, G M The 'Push Back Operation" in		DYKE, C G, and DAVIDOFF, L M. The Significance	414
Cleft Palate Surgery Howarth, W Pre Cancerous Epitheliomatosis	405	Seen in the Encephalogram	414
(Bowen's Disease) of the Palate and Fauces Ross, J C Sarcoma of the Tongue	405 406	GLASER, M. A. Tumors Arising from the Sensory Root of the Trigermal Nerve in the Posterior Fossa	
FRIEDMAN, M, and ROSH, R Protracted External Irradiation in the Treatment of Neoplasms of the Mouth and Throat A Comparison of the X		OSTROWSEI T, and DOBRZANIECKI, W Peripheral Facial Paralysis Treated by Cervical Ganglionec	414
Rays, the 5 Gm Radium Pack, and the 100- Mgm Radium Pack	467	PEET, M. M. Glossopharungeal Neuralga	414
		PEET, M M Glossopharyngeal Neuralgia	414
Pharynx		Peripheral Nerves	
SHEPLAR, A E, SPENCE, M J, and MACNEAL, W J Therapeutic Use of the Concentrated Strepto- coccus Serum of the New York State Depart		Sarro, M. Normal Shadow of the Penpheral Nerves and Their Pathological Change in Injury and Tumor	415
ment of Health in Patients with Infections of the Ear, Nose, and Throat	405	SURGERY OF THE THORAX	, ,
Neck		Chest Wall and Breast	
OLIVER, R L Malignant Epithelial Tumors of the	:	PAZZAGLI, R. The Pathogenesis of Cystic Mastitis	
Neck. Carcinoma of Branchiogenic Origin STARR, P, and PATTON, H Observations of Remis-		Billi, A. A Contribution to the Knowledge of Penthelioma of the Breast	416
sions in Hyperthyroidism Induced by Pregnancy- Urine Extract	407	LOUSTE, A., and CAILLIAU, F Paget's Disease of the	416
AMBLEMUL		Nipple , and a sixtuate of the	416

PYARLES, G. F. and VASTILY, J. H. The Technique Breest

Trackers, Longs, and Plears.

HERRICON, C. A. and VAN HARRY, W. The Results of Extraphental Thoracoptacty in the Treatment

FREEL, A M. and ARRAMETER T ] Petrol Em Pyrend, with Special Reference to Analysis. Streptonocci Post, H. The Prevention of Pubrostary Complica

tools in Surgery of the Stottschill Pre-Operative SATCHES W D and STELLE B T The Relation

shop of Infection to Postoperate Pulmonary Comphestons

Heart and Persondrem HIRER, I S. Exercisation of the Heart by the Roentgrokymographic M thod

The Treatment of Interstabular Miscellaneous

Theorem The Methods of Demonstrates of Arto, M The Methods of Demonstrates of Artificial Region of Patrocary Cases Author Demonstrates Notice to Patrocary Cases Author Demonstrates Notice to Lyupa Vessels of the Artificial Region of the Artificia GLAFFE H TALTO, M Less

SURGERY OF THE ARDONER

Gestre-Intestrual Tract

Aran, I Perforation of Carcamona of the Storaach into the General Peritumeal Cavity Farmer water, I and Friends, M. The Unstable on EDERWALD, J. and F.ELDMAN, M. Line Unstable on EDERWALD, J. and F.ELDMAN, M. Line Unstable on Cases

KATCE, J L. Reposal (Terroral) Bets Is GALLI, R and BERMANN, G As Expensered

St. N. and BERNARDS, G. As Experimental Study of Transplantation of the Herczcal Sphincter is Assistantials Between the Small

Tamel, D The Value of Negative Exploratory
Pencture in Supportance Appendicula CORTA, G. Postroperative Appendicus Futules 433

MINISTER O A G The Innervation of the Dartal Hove Cascer of the Lower Colon (Sagraced) and

Kresca, O Levermetton and Spannophilm Investigations on the Action of Acad

robe and Afrobic Bacters on the Surveyors Broken R. Small Intraine of the Rabbat

Liver Gell Einades Pencruns, and Spines. LEVORENT, C BETTALD, I and P TEL I Con-mornions on Solitary Produced and Advances. of the Laver Care Report

BASCOL B Studies and Researches on latermark and internitial Calculo of the Call Blacker Wars Josephon, A E and Mora, E G Cysts by

Constitute Determination of Layer I caction in the Tourness of Preparity by the Hemochatic

Reaction of Jacobs

OTRECOLOGY

Li Esc. II The Action of Thyprophysis—Extrict the Thyrine and Hypophysis—on the Control term of the Uterus. Its the h Utertrical term of the Uterus.

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RIVERSE LA TELLY SEETS OF CORPORATION D'AGRAC-SEE OF CALCEMENTS KLASTEN E and N YEATTLE E SAFOWER Of the

Uteres and Vegues Adneral and Peristanna Conditions

WALLANT J. The Ret and the Segmentary transcount of the Overy

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TORNATIA How Should Redon be Used in Be Treated How Should Radon be Used in Difficult Cases N hat Reset Cas be Observed WALLES, O A Rare Connective Transa Tuesde in the

SCRIFFFEE, C Infection of the Investor Scripter, C Infection of the Investor of Scripter, C Infection of Sc

OURADITIES, 1858CISS Of the Immediate Vagna Charitainon and Riselts A Stady of

Tears J The Treatment of Prentry Cascer of the VILL 120

Brance P M F Cook F and Havenoug A C dicatons for the Chescal Use of Program Miscalassons

BARRINGER, E. D. The Treatment of Consentrate in The Constitutional Predeposition the Francis

to Terrors of the Georgia Organs in the 1 smale MADEL The Retraction of the Forest and the Left APPLEMENT, O PETERMETURE OF THE COURT SHEET AND ASSESSED.

OBSTRUCTS

Programmy and its Complexations. ROSENSON L and D POW M M The Different

GREEKERN, N. F. On Letzick Property Antograms Vectors to Treatment
Terral P Antograms Vectors to the Treatment
of Sydneyhrite of Preparacy

Cox-oli N Determination of Liver Function in the Toxamias of Pregnancy by the Humoclastic	6	SURGERY OF THE BONES, JOINTS, MUSCL TENDONS	ES,
HALCH, E and LEHMANN, K Investigations into	436	Conditions of the Bones, Joints, Muscles, Tendons,	Etc
the Occurrence of Felampsia in Denmark Dur	437	YOUNG A G. and MacManos, H. E. Chronic Proliferative Arthritis in Patients with Rheu- matic Fever	449
Labor and Its Complications		Swain I T Orthopedic and Physical Therapeutic Treatment of Chronic Arthritis	445
MARS(LLK J, and SMAZH K Figotamin in Ob- stetrics and Gynecology	437	RAIM, II Predisposition in Osteochondritis Dissections of the Capitellum Humeri	444
KOTTMEIER H L The Results Obtained With Thymophysin in Cases of Weak Labor Pains	438	MOLLO, I Secrosis of the Semilunar Bone of the	449
I now, J Delayed Rupture of the Rag of Waters Certain Reflections Concerning the Hypotheses	0	KOCH S I Disabilities of the Hand GUENTZ, L The Diseases of the Intersertebral	450
of Kreis  Burns J W Breech A Method of Dealing with the	438	Joints	450
Aftercoming Head	430	ZADEK, I Congenital Coxa Vara LOCROSCINO, D Tuberculosis of the Neck of the	451
Miscellaneous		Femur LAGLEGREN, K. A. The Diagnosis of Meniscus	451
GONFLYNTINI, M. The Behavior of the Blood Sugar		Injuries by Arthrography	45
After Injections of Placental Patracts	440	Colonna, P. C. Congenital Pseudarthrosis of the leg. Three Cases Treated by Massive Bone Grift	
GENITO-URINARY SURGERY		or in	452
Adrenal, Kidney, and Ureter		Surgery of the Bones, Joints, Muscles, Tendons,	Etc
TRILLAT, P Autogenous Vaccines in the Treatment of Pyelonephritis of Pregnancy	436	II AS S I The Treatment of Permanent Paralysis of the Deltoid Muscle	453
GOLDZIEHER M, and KOSTER H   Idrenal Cortical   Hyperfunction	441	Topu, \ II The Treatment of Pes Casus	45.
GESCHICKTER, C F Suprarenal Tumors	441	Fractures and Dislocations	
BALER, J., and LERICHL, R. The Clinical Aspects and Treatment of Paraganglioma High Pressure Crises of Suprarenal Origin	442	FREIBEFG, \ H Congenital Luxation of the Hip Selection of Cases for Open Reduction	45.
PRIWES, M. G. The Internal Topography of the Arterial System of the Kidney and Renal Pelvis of Human Beings and Domestic Animals Roentgen Anatomical Studies	447	COMPERE, E. L., and PHEMISTEP, D. B. The Tibial Peg Shelf in Congenital Dislocation of the Hip	45
NOSZKAY, A NON The Value of Decapsulation in	442	SURGERY OF BLOOD AND LYMPH SYSTE	MS
Cases of Medical and Surgical Nephritis  CUMMING, R. E. The Treatment of Bilateral Renal	443	Blood Vessels	
And Ureteral Calculi  WHARTON, L R Pre Operative frradiation of Massive Tumors of the Kidney, A Clinical and	444	Privis, M. G. The Internal Topography of the Arterial System of the Kidney and Renal Pelvis of Human Beings and Domestic Animals Ana	
Pathological Study	444	tonneat Roenigen Studies	44
Dialia Wast Inc.		SCHUMACHER, S Arteriovenous Anastomoses FRIEH, P, and LÉVY, A Information Obtained by	45
Bladder, Urethra, and Penis		michigraph) in Certain Vascular Discusses of	
RIHMER, B VON Experiences With Diverticula of the Bladder	444	the Extremities	45
MARION, G, and KOGAN, B Incrusted Cystitis	445	Blood, Transfusion	
WAISON, E. M. Complete Rupture of the Urethra A Method of Repair in Delayed Cases	445	GONFLANTINI, M The Behavior of the Blood Sugar After Injections of Placental Extracts	
Genital Organs		Boccs, R Spontaneous Hæmophilm, a Report of Six Cases in Brothers	44
Young, H H Prostatic Calculi	446	Rø, J Blood Transfusion	45
GORDON TAYLOR, G Multiple Fibromata of the Tunica Vaginalis	446		45
36		Dainelli, M Experimental Studies on the Use of Tissue Extracts for Hæmostasis	40
Miscellaneous		JACKSON, H., JR., and PARKER F IR Accounts	47
DECKER, P Urinary Colibacillosis	447	cytosis Its Etiology and Treatment	47

INTERNATIONAL ABSTRACT OF SURGER!  L Represent Germanni Decima its 413  Kanton, J L Represent Topography of the surgery prography of the surgery program of the
OUTERNATIONAL ABSTRACT OF SUKULANDA Items Its 419
VI Report Community of the Record Community of the Rec
of A Stody 474 M G To the Kultury Assault Roses 44
To G Colon Bench Consider Appeals  BEXELT, G Colon Bench Consider Appeals  BEXELT STATEMENT OF THE STATEMENT
Bricki, G. Cohe Bacillas Septembers and Carolical Aspects.  Pathograms and Carolical Aspects of Starty of
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H The Pres of the Storman
PORT. II STORY of the SCHEMAN PROPERTY OF THE Relations Vaccination of the Polyment
Friedrich A Court and the form
Solve and 18 to 18
Postoperative 46 Man Radiant MacConst, at 100 of the Entire 44
Complexations The Questions of Periodograms 46  Lexiconstructs. The Questions of Periodograms 46  May Resident Periodograms 10  May Resident Periodograms 46  May Resident Periodograms 46
Paroline International Numerical Section 2012 Indicates Body for con- District, Various for Introduction and Info- District, Various for Introduction and Info- Miscolansons International Conference of Conference
DARRELLA Extracts for Delicates and Indian Markets and Indian Miles and Long A. Short, here Delicates and Long A. Short, here Delicates and Long A.
DATECH Experimental Experiment Tamor Fatters for Instance of Worseln and Infac  Animal Surgery Treatment of Worseln and Infac  Animal Surgery Treatment with Conference of Surgery Treatment with Conference of Surgery Treatment with Conference of Surgery Treatment S
Treat rithest and Philips 46
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The State of the S
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SAITO, M. Their Pathelogues V. H. The Technologue Dalling Falling Sairons
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Series In Normal Stational Charge in The Technopies and There Technopies and There Technopies Tennes (O. F. and Varrier, J. H. The Technopies of the Transact O. F. and Varrier, J. H. Carrinorae of the Transact Fairness Fairness Fairness Fairness Fairness (O. F. and Fairness Fairnes
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### **BIBLIOGRAPHY**

Surgery of the Hend and Neck		Genito-Urinary Surgery			
Head Eve. Far Nose and Sinuses Mouth	480 491 461 461 472	Adrenal, Kidney, and Ureter Bladder, Urethra, and Penis Genital Organs Viscellaneous	495 495 496 496		
Pharvnx	472 472	Communitation Domain Tourism Bernalam Tourism			
\cck	2,1	Surgery of the Bones, Joints, Muscles, Tendon	15		
Surgery of the Nervous System Brain and Its Coverings, Cranial Nerves Spinal Cord and Its Coverings Peripheral Nerves Sympathetic Nerves	483 454 484 464	Conditions of the Bones, Joints Muscles, Tendons, I te Surgery of the Bones Joints, Muscles, Tendons, Etc I rectures and Dislocations	495 499 499		
Miscellaneous	484	Surgery of the Blood and Lymph Systems			
Surgery of the Thorax Chest Wall and Breast Trachea, Lungs, and Pleura Heart and Pencardium	4 <sup>9</sup> 4 4 <sup>5</sup> 5 485	Blood Vessels Blood, Transfusion I ymph Glands and I ymphatic Vessels	500 500		
Æsophagus and Mediastinum	485	Surgical Technique			
Surgery of the Abdomen Abdominal Wall and Peritoneum Gastro Intestinal Tract Liver, Gall Bladder Pancreas, and Spleen Miscellaneous	480 480 480 485 489	Operative Surgery and Technique, Postoperative Treatment Intisciptic Surgery, Treatment of Wounds and In fections Inasthesia Surgical Instruments and Apparatus	201 201 202		
Gynecology		Physicochemical Methods in Surgery			
Uterus Adnexal and Periuterine Conditions External Genitalia Miscellaneous	480 490 491 491	Roentgenology Radium Miscellaneous	502 502 502		
Obstetrics		Miscellaneous			
Pregnancy and Its Complications Labor and Its Complications Puerperium and Its Complications Newborn Miscellaneous	492 494 494 494 495	Clinical Entities—General Physiological Conditions General Bacterial, Protozoan, and Parasitic Infec- tions Ductless Glands Surgical Pathology and Diagnosis Experimental Surgery	201 201 203		
	.,,		504		

#### AUTHORS OF ARTICLES ABSTRACTED

Abrensetly T J 4 8
Abrensetly A 4 4
Abrensetly A 4 4
Abrensetly A 4 5
Babred A M 4 8
Fribert A M 4 8
Babred A M 4 8
Fribert A M 4 8
Babred A M 4 8
Babred A M 4 8
Babred A M 4 9
Babred A M 4 8
Bernsetly A 4 19
Bernsetly

# INTERNATIONAL ABSTRACT OF SURGERY

# ABSTRACTS OF CURRENT LITERATURE SURGERY OF THE HEAD AND NECKHarmer, W D

Disease in the Upper Jaw Lancel, 1935, 228 129 The Treatment of Malignant Cancer of the upper Jaw is easier to cure than cancer in any other part of the upper air passages except the larynx. Its treatment has been greatly improved by the combination of surgery, diathermy,

Both surgery and diathermy are indispensable hecause, to date, it has been impossible to deliver an adequate dose of irradiation to such deeply situated growths hy surface treatment alone It has been found that complete removal of the upper Jan is inadvisable. The approach should never he made through the skin As most of the growths are complicated by sepsis, the first essential is the establishment of drainage Free drainage can he obtained hy opening helow through the canine fossa or the palate The soft tissues should be divided with an endotherm knife The canine fossa should be opened first and if the antrum is found to he full of tumor tissue the hard palate should he removed rule the soft palate should be preserved, even if it is thought to he invaded, hecause in this situation the disease can he treated successfully by surface irradiation or interstitial needling If the soft palate can be left intact and ultimately becomes healthy, a very simple denture will repair all of the deformity and render the patient comfortable

Transpalatal exposure is a simple operation which can be performed rapidly with very little loss of hlood and hardly any shock Intratracheal anassthesia should be employed and the pharynx plugged securely with gauze to prevent blood and pus from passing down into the lungs After four or five days the outlying malignant cells, which are always present in the home constructions which are always present in the home constructions. ent in the bony structure surrounding the cavity of the ca and can rarely be destroyed even by heat, should be treated hy irradiation. The author prefers radium to the X-rays rays, and surface irradiation to interstitial needling or the use of seeds The best results

are obtained by slow and prolonged treatments The permanent opening allows the cavity to be inspected easily so that if at any time a remnant of disease or recurrence is found, it can be treated hy diathermy or by further irradiation no external deformity no externat deformity Computations are rare and serious burns of the skin seldom result. In no case has spreading ostellis occurred However, small Complications are rare and sequestra and some sloughing are common Occasionally, also, the sight of the eje may be destroyed or a post-irradiation cataract may develop later As a rule no treatment of the glands of the neck is

The described method or some modification of it can be carned out for squamous cell carcinomata, endotheliomata, and lon-grade sarcomata such as fhrosarcomata, myxosarcomata, and chondrosarcomata without great risk of causing dissemination However, when the disease is very advanced and of a highly malignant type, disturbance of the growth

The highly cellular carcinomata and sarcomata must always be regarded as inoperable Deep X-ray treatment or surface irradiation with radium alone or a combination of these procedures is probably the safest method of treatment in most cases Occasionally, after preliminary irradiation, it may he wise to insert a large number of needles into the Jaw through the palate or nose If the needles are screened with 0 8 mm of platinum they may he left in siln for from five to seven days, but the reaction must JOSEPH K NARAT M D

Francois, J Catarrhai Diphtheritic Conjunc-

The author's conclusions regarding diphthentic conjunctivitis are as follows Besides the pseudo-membranous forms of

diphtheritic conjunctivitis, there is a purely catar-

403

The latter is often observed in newly born children and should be classed with the ophthalmias

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4. Because of its clinical aspect, it seems to be
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A modernt innertation is sufficient to bring the A moderal uncertained is someon, which the check the action of is antagonist eye ( me mants at morning trockers, which have covered the exceeded. Therefore, inguinests do not allow to be exceeded. Therefore, the control of the exceeded of the control of the unbocular risk or manoon is or me years as the diagnosis of slight persons than the binocular field of fraction or the field of hancoular angle raises, need or first on which are searly identical. A considerable the limits of which are agently identical of considerable limits from of the broomies field when the theoretic states because of the considerable of the states of the considerable of the nervation of Drin c) of management effect on each eye If one of the muscles executed the laterous move-

#### PATRICLOGICAL COMPTTONS I THE ments is paretic

In many cases of palsy an anomalous position of is many cases it page at anomalous position of the head is characteristic are 1 most care the the best is characteristic age 1 most case the term g of the best is toward the direction. I setum innii got the orea is toward the airection. Jactuse of the parette massis. The rule is modified by the or the paretic massis and rule is mounted by the direction of the entagonist OFTENDED OF SPECIAL CONTROLLS OF THE ESTRECTION muscle, is not invariably carried for the external standard recommends, and he sees harded 1, 12 and 12 and 12 are to the carried to the carried of the carried of the carried standard 1, 12 and 12 are to the carried of the carried standard 1, 12 and 12 are to the carried of t venus only is not a corrient of noth officers of the band is that or thrown back

I cases of trochlear nerve pairy the position of the bend is selden in accord with this rake beed is usually tilted toward the shoulder of the beed is usually tuted toward the scounter or the sound able and at the same time turned around so sound side and at the same time turned around so the vertical and so that the paralle 9. In rotated ortward. In cases of parents of the superior rectus outsaids so seems in parents or the superior recrus-shore, the here is often turned only to the side of alone, the face is often inrued that I'm the mas of the paretic muscle because the effect of adhering the parene masce became the enert of annactive of the parene masce became the enert of annactive to or the paretic eye is to common occurring in action parests of the superior rectus, replacing its action by increasing the influence of the obliques. The rise by increasing the influence of the occupies the patient must cuercuse by minimen as making a the parent chooses the least inconvenient position of the head coorses the scan inconvenient produces a ten sensitive by which the paretic marks is sufficiently the my which and parent mance is suindently de-burdened so that binocular single vision can be obturnessed so that hunocular sample vision can no obthe paretic ove because of the patient's use of the paretic eye for firstlem. The paretic eye may have paretic eye for arasim. The paretic eye may here beet to retain than the other eye or may here beeter retain than the other eye or may here beeter retain than the other eye or may be not dominant since childhood, or diplople may be not commant sizes commond, or appropriate large in section (M trounserome in the primary position became integers are closer together in primary deviation

images are closer together in primary defeatable.
This orientation when firms, with the parety.
This orientation when firms, with the parety of the consideration of the control of the co nuce with the partitle eye the amount socialization will adapt first to the charged relations between the state of the false orientation and its effect and the false orientation. innervanier and his edges, and the tense orientation becomes redified. The paretic localisation that one becomes rectified. The partic localisation loss on the supplication by speaker localisation is time with the comparation of the stand of the speaker of the supplication of the supplicati without being proportions; to the degree of paly the other hand, managers batterns with high on ins ounce mand, management particular with mental designs of primary deviation from the beginning of the Illians. These from from the beginning of the Illians. use more the beginning of the library ince in markely differences aeros to be the party ( ) is not related differences to grown! Inspects (man, its lookytical differences to grown! Inspects (man, its lookytical differences to grown!) nonrecoral outerences to growth muscle cones, one tended referred law week in cases theretal law tended referred deviation and increased | those life law parents deviation and increased | those life law. percus orrespon and increases | 1500s 11a sept. occusion. On Person and um aims or response to during the parents may also influence the deviations are Among the characteristic signs of the painting are

removed the contractificate signs of the primary and secondary the unicrease person the initiary and secretary of derializes, and the increase and decrease of deriaorvinion, and the increase and decrease of deriving the section of the section of the paralyzed meads or to be defined of action of the paralyzed meads or to be opposed to be paralyzed meads or to be opposed to b need or action of the paralyses means or a transfer posses son With the return of normal renders as a partic muscle the deviation may remain because a batter moment in octomic max tomas access to contracting or the opposing preside. If the tractions due process, basedular saude vision can be tracted in the whole field of fixtures. If the case restored to the whole man of making it are the tracture becomes permanent, a concomism of the tractions oncomes personnels, a consolitation over-tion remains, giving an erroseous impression of the cases of the district. In the majority of case of beforem review in law there is the many Luminovisces. belowing acres paley there is the usual somostypose. opiocess serve passy there is the small homosymmet death, and the homo expected in some cases the homographic committee are not us the same level and are algebra produced toward one enother pecesses of included toward one another receipe of com-plexible concretant hyperphone or parent of on it the sectors) Processing Concountraint hyperphones or parents of one of the vertical modern or an anomalous position of the external rectus

# PARALISIS OF THE TROCHLE IR VERVE

By far the most important type of paralysis of a single vertical motor is paralysis of the trochlear nerve The first striking sign in many cases is habitual torticollis, the ocular origin of which is frequently overlooked. In many cases of the con dition in children orthopedic treatment has been given or the sternocleidonistoid muscle has been severed because of an erroneous diagnosis Paresis of the superior or inferior oblique is probably the cause of the habitual tilting of the head if binocular single vision can be obtained only by this posture In some cases the head is turned toward the sound side so that the visual line of the paretic eve, being abducted, is not acted on by the oblique muscles Depression of the head is rare The theories of the production of these positions of the head are dis

A simple apparatus based on the principle of Helmholtz's "\ isserzeichen" is used for determining the influence of various positions of the head on the visual images. It consists of a horizontal black strip on white cardboard fixed to a rod 30 in long which is rotated with the head by means of a metal plate at the other end held between the teeth A person with left trochlear nerve palsy sees two images of the line, the left image below the right and slanting to converge with the right image at the side of the paresis Tilting the head toward the paretic side increases the distance and the obliquity, while tilt ing it toward the sound side causes the images to

The vertical component is the most important in diagnosis, the deviation increasing when the patient looks down as well as when he looks toward the sound side The minimum of vertical deviation or even of binocular single vision is found when the patient looks up and to the paretic side In many textbooks inordinate importance is attached to the lateral deviation component in palsy of the trochlear nerve However, when a patient with exophona acquires a trochlear nerve palsy the exophoria transforms the smaller lateral paretic component from an inward to an outward deviation. In at least 25 per cent of typical cases of trochlear nerve palsy,

no lateral deviation or even a divergence is found In palsy of the trochlear nerve there is a torsion outward (disclination), whereas in palsy of the in ferior rectus muscle there is a torsion inward (conclination) When there is homonymous or crossed diplopia, the use of the horizontal test object pre vents a mistake in diagnosis for in any case of trochlear nerve palsy the paretic disclination makes the double images converge to the paretic side, whether there is homonymous or crossed diplopia besides vertical diplopia However, as in cases of abducens nerve palsy, trochlear nerve palsy also gradually loses its typical features by the development of a secondary contracture of the antagonist so that the vertical divergence increases in the direction of the sound side and decreases in the opposite direction without a change in the vertical distance of the two

images when the subject looks up or down Therefore, from the kind of obliquity, it is possible to conclude only that there is a paretic torsion, one cannot decide which eye the paretic muscle belongs to The diagnosis of the origin of a paresis may he made by the use of the apparatus described for the head tilting test

The author cites also a peculiar anomaly which is similar to the atypical vertical divergence just described because it produces the impression of excessive functioning of one or both of the inferior oblique muscles The conditions are apparently the same as in long standing permanent trochlear nerve palsy, in which a contraction of the inferior oblique develops during the improvement of the paretic superior oblique The anomaly is usually of congenital origin, but in some cases has developed after Killian's radical operation on the frontal sinus In the congenital type there is no disclination of the vertical mendian of the eve such as is found in every case of the acquired disturbance, whether a primary anomaly or a secondary contraction of the inferior oblique following trochlear nerve palsy

# PARALISIS OF THE OCULOMOTOR VERVE

Paralysis of individual muscles controlled by the third nerve is rire compared with paralysis of the abducens and trochlear nerves, The diagnosis is hased on the principles already discussed The in ternal rectus muscle is the only ocular muscle pos sessing two functions at the command of the will One of them obeys the impulse to parallel movement of the eves, whereas the other is governed by the convergence impulse A loss of both functions without paresis of the third nerve is extremely rare and points to a lesion of the nucleus or the roots of the nerves supplying the internal rectus muscle, neither of which can easily be damaged without involving either ganglion cells or other roots of the third nerve Loss of convergence alone is frequent Loss of ad duction in looking sideways while convergence is intact is less common In the majority of cases there is loss of conjugate movement Loss of adduction only in conjugate parallel movements with normal or nearly normal adduction in convergence can be caused only by a lesion of the posterior longitudinal bundle between the sixth and third nucleus (ophthalmoplegia nuclearis anterior)

Besides the internal recti, there is only one pair of muscles in which unilateral paralysis positively attributable to a supranuclear lesion can develop One sided elevator paralysis with integrity of the elevator muscles in Bell's phenomenon must be due to a Jesion close to the nuclei below the point where the pathway descending from the cortical center for elevation of the eyes bifurcates into the branches which go to the third nuclei This condition has been observed by the author only three times

The symptoms of typical oculomotor paralysis are not discussed. Many patients with total paralysis of the third nerve are able to overcome extreme deviations by means of a strong convergence im-

W14 6/24

pulse. If the paralyzed cy e is constantly fixing he cause of ametropia or ambylopia of the other cyc, the secondary deviation may be extreme. Exophthalmos due t relaxation of the rectus muscles in collomotor pairy may be associated with a striking retraction movement connected with the abduction of the paralyzed sy.

A rare phenomenon called by Koerber "nystagmus retractedurs" has been observed only in cases of gra e injury of the motiest region between the third and fourth ventricles. Resides parents of few or many muscles of both eyes, the most simbing sign is retraction of one or both eyes following every

impulse sent to the eye muscles

Another perular symptom, the paseino-farated phenomenon, develops in patients partially recovering from embosotoe paralysis. This consists of articision of one opper that and arrowing of the fillated pauli following an imposite: I look in certain drives. The explanation given is that during the healing process following interception of the third cerve some of the never heres from the central part of the trank survive at models a which they do not the trank survive at models a which they do not that most one of the product of the trank survive at models at the transposition of the trank survive at models at the strong should be a survive and the models of the product the impulse to look down and in usually produces the structure of the trunction of the upon fill direction.

Cyclic ordiomotor perre piralysis (Azendeld) is phenomenon in which there is unonate silernation of spastle ord paralytic conditions of the paralter of paralytic conditions of the paralter of There are rudamentary forces which may be easily overslooked. Some ! the latter have been reported as third sarve paralysis showing a poculiar paral phenomenon is indeed; 5 per cent of cases the phenomenon is not compensate but control of the paralter of the phenomenon is not compensate but carried in carried in the paralysis of the phenomenon is not compensate but the phenomenon is not only to the paralter of the paralysis of the phenomenon is not perfectly the property of the paralysis. The three between the cities the leads is localized in the respon of the third such as the leads of the paralter of the paralter

Chavira, R. A. Technique of the Cateract Operation (Técnica de la operación de la caterata) Res mercana de ceras pues y cases 234. 634

Fallowing bref rower of the evolution of oper if procedures for extent Charris discusses the inductions for and the usual investigations and retrainest preceding the usocomplacated combined extraction of the semile form of catanet and describes the technique of that operation in detail. If emphasizes particularly the importance of subcutaseous assemblest modered with so-oxial by Van Lint method and deep anemheria of the cytakill induced by the retrie-oxialst infection of novocain.

и поучения И в Можик, И D

Statiard, H. B. Two Cases of Retisal Detachment Presenting Certain Unusual Features After Operation by Surface Disthermy Sea J. Optic 935, 9-3

Stallard reports t o cases of retinal detachment treated by surface dilathermy with apparent fasture Immediately after the operation but with altimate restoration of the visual fields. Both were emme tropic.

One of the cases as that of boy thirters year, old who had had poor which in the ey since as fajury four years previously. In this case there was complete distancement of the lower part of the reduction of the second that the state of the case of

The other case was that of woman forty-series old who had had detectment for the posts of who had had detectment for the mouths I this case surface duthermy was performed with single trephine opening and the release of subretland field, and the disthermy applies them were repetited after foretreen days. The town were repetited after foretreen days. The town were repetited after foretreen days. The town were repetited after the fact that the surface of the surface of

The author believes that in both cases the retusal team were occluded that the subscribed field, originating either as aqueous or as a transcolate following the inflammatory reaction, was at first ble to pass through, but as the scaling up process became more form the find prevent was shoughed and no more could pass through, the detachment then becoming curred.

White AM Is MD

#### RESTINTS CINA EROR

Lazzlo, A. F. So-Called Mureld Costs of the hose A Report of Three Cases Arch Colorys pt

935. 4
Lasio states that in all cases of second dyst of the toos reported previously the set of the cyst was the same as in his cases and, except hea the cyst became infected and books down, the contents of the

cyst ere be dimensily the same.

As rule uncrescopic examination showed colors are chatted epithelium, but in some cases the scalil layered payment epithelium formed the coverleg and in others transformation of the payment epithelium to coloranar or chatted coloranar or chatted coloranar or chatted.

thelmm was observed.

In some cases cholesterol as found in the cyst, but the majority t was beest. Absence of cholesterol in the contents of the case caused serve as beau for differential diagnosis as there we may destigerous cysts. hich do not contain cholesterol.

Lastlo greet with Rohmer that the cytis are of embryological outfit and develop either from the right-fillad best of Herwing or from magnized same shall get mitted. In magnizerd and sanger mitted the magnizerd and speed of the piece cytibe-fives in the cramo-orthonoid fessor, cherry where the lateral process of the superior maintenances the magnitude process of the superior maintenances the magnitude process. If he leder on they should be

classified as cysts of dental origin Whether or not trauma or any other external factor such as infection or inflammation is the cause of their development has not jet heen determined

JAMES C BRASWELL, M D

## MOUTH

Pfahler, G E The Treatment of Epithelioma of the Cheek Radiology, 1935, 24 99

The author briefly reviews the oral conditions associated with cancer of the check and discusses the prohlems of prophylavis and the prohlem of hanging the patient to the doctor while the lesion is still in the early stages In reporting in detail Six of his cases in which a successful result was obtained, he emphasizes that each case must he treated according to its individual requirements. In the SIX cases he reports heavy irradiation was given Deep X-ray therapy, the surface application of radium, and interstitial irradiation were all emwhen deep hone involvement was present in the Surgery was used as an adjunct usually mandıhle

Dorrance, G M The "Push-Back Operation" in Cleft-Palate Surgery Ann Surg, 1935, 101 445

The attainment of good speech in cases of cleft palate requires complete velopharyngeal closure Such closure is obtained only by an operation permiting the velum to come into contact with the mitting the velum to come into contact with the pharyngeal wall so that the "palotopharyngeal" sphincter, shuts off the nasopharynx. The more efficient the closure the more satisfactory the speech A considerable number of persons with cleft palate have a short palate, especially individuals with a cleft velum alone or in whom the cleft extends as far forward as the Junction of the middle and antenor thirds of the hard palate When no shortening of the velum exists, good operative and functional rethe veium exists, good operative and interioral results may be obtained by successful closure of the

cleft palate without use of the push hack operation The palatopharyngeal sphincter is a muscular ing formed hy the pterygopharyngeal portion of the superior constrictor muscle which inserts in the palatal aponeurosis at the site of insertion of the levator palati muscles When it contracts it shuts off the nasopharynx from the oropharynx In cleft palate the antenor segment of the muscle forming the pharyngeal ring is split and the separated ends are far apart. The tensor palati muscle is shorter than normal, and its contracture increases the diameter of the nasopharynx This lateral tension may be released by division of the hamular process which permits the antenor ends of the cleft pharyngeal rng to be approximated at the midline and thus restores the divided "palatopharyngeal sphincter"

All conservative surgical methods for repair of the palate are based on the principle of medial displace ment of the palatal soft parts as described by von Langenhach, but this fails to restore function in cases of short palate Dorrance prefers a two-stage

procedure with an interval of at least three months hetween the stages In the first stage he raises a mucopenosteal flap as far hack as the attachment of the palatal aponeurosis and then replaces it In the second stage he raises the palatal flap again, frees the palatal aponeurosis and nasal mucous membrane from the posterior horder of the hard palate, and divides the hamular processes to release the tension so that the two halves of the cleft palate will meet in the midline. He recommends use of the aluminumhronze tension suture suggested by Veau The anterior edge of the displaced flap is fastened with a suture through the hone and further supported hy a silver wire passed around the molars In conclusion Dorrance again emphasizes that the "push-hack" operation is not employed in all cases and advises against its use hefore the age of five

THOMAS W STEVENSON, JR, MD Howarth, W (Bowen's Disease) of the Palate and Fauces Pre-Cancerous Epitheliomatosis J Laryngol & Olol, 1935, 50 28

In 1912 Bowen reported two cases of dermatosis with chronic atypical epithelial proliferation The disease was a chronic condition characterized hy single or multiple papulosquamous, eroded, or crusty hyperkeratotic tumor masses. The lessons occasionally metastasized to distant organs, but as a rule were henign. Subsequently several cases in which the lesions occurred on the vulva were reported

The described histological changes were dyskeratosis in a hyperkeratotic epithelium, (2) intracellular cedema resulting in a vacuole ahout the cell nucleus, (3) numerous mitoses, (4) clumping of large cells with giant nuclei and large nucleoli, (5) hyperkeratosis and parakeratosis, and (6) a general confused picture of the malpighian layer

The author reports three cases in which the lesions were similar in their clinical manifestations and histological appearance to the lesions previously described, but were located on the mucous membrane of the mouth His article contains sketches of the gross lesions and photomicrographs In the first case, that of a man fifty-six years old,

there was involvement of the cheel, soft palate, lps, and floor of the mouth Since 1920 the growth has been partially controlled by diathermic cauter-Ization No evidence of malignancy has developed although the lesion has recurred

In the second case, that of a man fifty-five years old, the lesion responded well to cautenzation, but the treatment was given too recently for judgment of the permanency of the cure

In the third case, that of a man fifty eight years old, the same treatment given recently has resulted

All of the histological sections were similar The epithelium was greatly thickened, there heing elongation and broadening of the interpapillary processes On the surface there was a layer of necrosed keraon the surface there was a myer of necrosed Aera-thrized epithelium infiltrated with inflammatory

cella small groups of large stratum grandsome cells aren present. In the cells of the tratum malegiall were ecolosybiles hydine bodies. Fraquently one of these bodies filed a cell. The cellof the basal layen of the epithelium sometimes the observation of the cells of the basal layen of the subject to the competition of the cells of the cells of the cells of the cells of the section of the cells of the cells of the cells of pages are the subject to the cells of the pages are the and tymphocytes.

The thor suggests that the presence of inclusion bodies may indicate that the etiological facto is a filterable virus

Lova T Brass, M D

Ross, J. C.: Sarcoma f the Tongos, Scil If J. 1935; 54

The other briefly reviews the hterature on our come of the tongue, pointing out that no one man has ever seen sufficient number of cases to writ

report on the condition which is of much value.

The hterature indicates that sercoms of the topston is discusse of adult his and occurs more

frequently in males than in females

The true surcomats of the tongue are (1) small round-cell surcomats ( ) large round-cell surcomats

(s) spindle cell sarcomata, (4) mixed-cell sarcomat

and (3) lymphosarcomata

The rank symptoms are due merely t swelling of the tongue. The later symptoms are those of dranced curmoons of the mouth

The most frequent locations of sarroms are the middle and posterior thirds of the tongue. The sveiding is firm and clastic. Ulcoration occurs only where a large timor is in contact with sharp teeth. Metaserals to the cervical sodes occurs in 20 per

cent of the cases. The lesion differs from carentoms in that it ppears suffer in life, I is rarely associated with pain, it is firm and castic whereas careinoms is here, craggy and itiable, I ames as an intrajousal max.

and carcinoms is usually ulcerated early

The athor treatment is surgical removal of all
or half the tongue followed by block dissection of

the curvicul glands

Ross concludes that the prognosis is not so un
favorable as might be anticipated

LOCUS T. BYARS, M.D.

#### PHARYNE

Sheplar A. E., Spence, M. J. and MacNeal, W. J. Theraportic Use of th. Concentrated Streptococcus Serkm of the New York State Depart toent of Health in Patients with Infections of the Ear Nose, and Throat. Arth Surg. 935, pt.

The a thore state that eight patients suffering from severe infection with hemolytic trepteococi in the field of otoribiolars agology—six of them with positive blood cultime—were treated with the constructed strepteococins secure of the New York Stat Department of Health, with t deather and its recoveries.

The early use of this seram is indicated in streptocouric infections of the upper respiratory tract and the middle ser to forestall the all too-common serious sequele of these maladies.

Postoperative infections in the upper respiratory tract may also be favorably influenced by the serum JAMES C. REASWELL, M.D.

#### HECK

Oliver R. L.; Malignant Epithelial Tumors of the Nock. Carcinoma of Branchingenic Origin 4m J Caucer 213 3 5

Since the gill system is forerunteer of the developnent of the thymus and thymoid and is responsible for vasifyial elements through detective closure of incomplete obliteration of the preservicial size, it seems whe to designat deep failtrating opticised tumon of the neck as being of bettuchteeped origin. The presistances of any portion of the actural of incomplication of the translate apparatus of incomplication of the translate apparatus production terminates which may develop as eyests or deep malignant epidermood tumons of the pect.

The author presents study of eighty cardiomats arising in the deep traues of the neck without rela-

strong in the drap tractics in the neck attrout t

These two-ors occurred sizes these near stropcostly in males than in femiles and were most contrast or the sixth decade of life. The average describes of the sixth decade of life. The average has been considered to support the sixth decade of the sixth services of the sixth services of the sixth services. In the sixth services are sixth services of the sixth, beautiful manifestations were stiffness of the sixth, beautiful manifestations were stiffness of the sixth, beautiful manifestations were stiffness of the sixth services, pain, and general curvical node enlargement. In about to per cent of the sixth services, pain, and general curvical node enlargement. In about to per cent of the sixth services of the sixth services are supported to the sixth services of the sixth services.

Ratherl surgery is raquired for these rapidly greating and infiltrating tumors. The sense operation advocated involves block thesection of the plant of the send; the resection of the larger vessels of the neck, including, in some lineaurous, the internal and common carried artery.

Pathologically the tunors in the reported cases ere grossly sither solid or cycle. Under the microscope they could be divided into squamoscell, cubodal cell, and besal celled forms. The cubodal cell and basil-cell forms were subdivided int two groups diffuse and sirvolar.

In the differential diagnosis it was necessary to rule out cervical lymphotenius, benigs branchial cleft cysts, malagnant lymphotenate and metastasses from carcisoma of the nessi sinuses or structures of the threat

These tumors constitut single pathological eatity grading from the less differentiated break-or form through the cuboidal-cell form to the ment highly differentiated againsous-cell form. Surgery

is slightly more favorable in the last two forms than in the first form. Irradiation is prohably advisable in conjunction with surgery in all forms, hut particularly in the hasal cell form. In advanced and inoperable cases palliative irradiation may be helpful.

JOSEPH K. NARAT, M. D.

Starr, P, and Patton, H Observations of Remissions in Hyperthyroidism Induced by Pregnancy-Urine Extract Ann Int Med, 1935, 8 825

Thirteen cases of hyperthyroidism have been treated with extract of pregnancy urine and theelin The usual course of the treatment lasted for from four to five months, the shortest was two weeks and the longest seven months Remission of the hyperthyroidism occurred in seven of the cases cases in which the treatment failed were those of a boy a woman two years past the menopause, a woman with hypertension and nodular goiter of twenty-three years' duration, who was at the menopause, a woman in whom a remission had been induced hut an infection of the upper respiratory tract developed, a woman of thirty four years who had had two pelvic operations for infection and adhesions, in one of which the right ovary was removed, and a Negro woman with excessive, atyp ical myasthenic hyperthyroidism. As the women in whom the treatment was successful were definitely below the menopause and had no history of ovarian disease, it appears that the induction of a remission by extract of pregnancy urine is dependent on normal ovarian function

At the present time it is impossible to present physiological proof that the remission in these cases may he attributed to the extract of pregnancy urine and theelin as the mechanism of such an action is unknown. Nevertheless, remissions occurred—abruptly in the healthiest adolescent girl and more gradually in the women. In two cases the return of menstruation, which had ceased during the treatment with extract of pregnancy urine, was coincident with remission as evidenced by a gain in the weight, which previously had heen stationary, and reduction of the metaholic rate to, or nearly to, normal.

#### Kernan, J. D., and Schugt, H. P. Abscess of the Larynx and Its Treatment Ann Otol, Rhinol & Laryngol, 1934, 43 1009

Abscess of the larynx has been called "ædema laryngis," "ædema glottidis," "laryngitis suhmucosa," "laryngitis ædematosa," "laryngitis phlegmonosa," "angina laryngea infiltrata," "laryngitis seropurulenta," "angina laryngea ædematosa," and "ahscessus larvngis" All of these terms refer to a condition which develops from a so called laryngitis submucosa and may progress to any of the following stages of development (1) ædema of the larynx, (2) penchondritis of the larynx, (3) ahscess of the larynx, and (4) phlegmon of the larynx

The traumatic form of laryngeal abscess is the only one that has its origin in the larynx itself. All

other abscesses of the larynx must be considered secondary to infections of a general nature or occurring in the vicinity of the larynx. Formerly, typhoid fever was the most common infection. More recently the majority of the abscesses reported have followed grippe or have occurred in association with an acute tonsillitis and pharyngits. Infections localized primarily in the throat may reach the laryny by superficial spread or involve it hy way of the blood stream

The symptoms of larvingeal abscess are pain, which may be spontaneous or noted only on pressure or swallowing, hoarseness, which may vary considerably in intensity, and dyspince due to odema about the site of infection.

In the adult, there may be osteomyelitis of the ossified cartilages when the disease has persisted for some time. This may be associated with chronic swelling, a discharging sinus, and sequestra formation.

In infections of the thyroid cartilage the outer wall and the floor of the pyriform fossa hulge up ward. This bulging has been regarded as pathognomomic of an exudative process in the thyroid cartilage. If only the floor of the pyriform fossa bulges upward the disease process may be in the vicinity of the thyroid cartilage as well as near the cricoid cartilage.

Marked swelling of the ventricular bands indicates involvement of the thyroid cartilage, whereas swelling of the posterior wall of the larvinx beneath the larvingeal aperture is more indicative of involvement of the cricoid cartilage.

The ericoid cartilage is least often affected in abscess formation and perichondritis, but the cases with involvement of this cartilage have the most serious complications and are the most difficult to treat. In the characteristic picture of cricoid cartilage involvement there is a marked swelling of the lamina cricoidea, particularly of its pharin geal surface, which hulges in a tumor like swelling pushing the entire larynx forward and therehv blocking the pharynx Difficulty in swallowing is more marked than in any other form of inflammators disease of the laryngeal cartilages. In addition, swelling and fixation of the ary tenoids usually occur if the infection involves the entire lamina cricoidea If the infection is limited to one side of the lamina cricoidea, the opposite arytenoid is more or less freely movable This is the case fairly often hecause the lamina consists of two lateral hony nuclei separated hy a cartilaginous central portion

With regard to the treatment of perichondritis or abscess of the larynx there is considerable difference of opinion. Some laryngologists advocate conservative treatment while others advocate the most radical surgical procedures. Since in most of the cases seen formerly the condition was a complication of typhoid, and since in this infection several of the laryngeal cartilages were usually affected at the same time, it is understandable that a radical procedure was advocated hecause of the frequency

viscosity of the saliva. The patient complains of dryness of the month and difficulty in availabeling or expectorating the secretions. At the beginning of treatment the them order irrigation of the month every two hours with the salice of the month overst in a new order. This is done with a sect. It repulses the present in more, and patient and a which a measurable in produced in my portion of the planym between the soft palate and the pyriform names. In most cases soft or flepth food can be taken in sufficient quantity t maintain the patient with the case, aspecially those of involvement of the Pyropharya, the displaying in may be more available of the description of the produced of the displayment of the monthiaston of pain and withing of the myrenotia at the height of the restriction.

Prophylactic trachectomy abould be considered in all cases of growths involving the arytenoids, ventricular folds, or vocal cords. If trachectomy becomes necessary it should be done before beginging treatment in order to avoid the necessity. I coming no tissues in which there is marked radiation reaction and of interrupting the sequence of treatments. While the skin is in a dry state, the authors use frequent applications of mineral of without any other dressing. Where the surface becomes moist they apply single layers of grave handage impreparated with boric acid optiment, and continue this dressing until besting has these place and the skin is again dry and boke.

Of 120 patients treated duting period of tygain, 4 (so per cent) remained free from disease
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successful local result was obtained
Tourse E. Marar M.D.

# SURGERY OF THE NERVOUS SYSTEM

#### BRAIN AND ITS COVERINGS, CRANIAL NERVES

Fay, T The Treatment of Acute and Chronic Cases of Cerebral Trauma by Methods of Dehydration Ann Surg, 1935, 101 76

Fav states that statistics show a definite reduction of the mortality (114 per cent) in cases of acute cerebral trauma treated by dehydration therapy In his treatment of such cases the usual conservative treatment, including the administration of 50 c cm of a 50 per cent solution of glucose, is given during the period of shock, and from 100 to 300 c cm of saline solution may be given to combat severe bloodvolume loss of fluid After the period of shock a lumbar puncture is done, roentgenograms are made, and the wounds are sutured Hypertonic solutions are given by mouth, rectum, or vein, depending upon the general state of dehydration If the spinal fluid is clear, 20 oz of liquid and a "dry" or solid diet are allowed If the spinal fluid is blood, 30 oz of liquid are allowed and this amount is maintained until daily spinal drainage is discontinued upon the recovery of xanthochromic fluid. The patient usually leaves the hospital after from ten to twelve days and on discharge is given specific instructions as to diet and the maintenance of dehydration. The daily weight is used as a guide to water storage as 1 pt weighs approximately I lb

The author has found that when a solid dry diet and a total of 20 oz of fluid per day are given, consciousness returns, the patient is free from headache. and little or no spinal fluid need be removed by lum bar puncture after the second day. After their discharge from the hospital, his patients usually receive 32 oz of fluid daily for the next three months Follow up findings in the cases of patients main tained on a fluid balance after discharge from the hospital have shown 92 per cent to be free from the

usual post traumatic syndromes

ROBERT ZOLLINGER, M D

### Pendergrass, E. P., and Hodes, P. J. Dilatations of the Cavum Septi Pellucidi and Cavum Vergæ Ann Surg, 1935, 101 269

Three cases of dilatation of the cavum septi pellucidi are reported All of the patients showed a quantitative intellectual reduction with inability to concentrate Two showed a tendency to be euphoric and jocose All suffered periods of unconsciousness at irregular intervals, and two had clonic convulsions Among other signs were speech defects, incomplete motor weakness of the extremities, severe headache, loss of deep sensation, and ataxia In one case there was a loss of part of the visual fields The picture differed from that of

lesions of the corpus callosum in that somnolence and motor apraxia were absent

As seen in ventriculograms and encephalograms, the normal septum pellucidum ranges in width from 15 to 3 mm A greater width should arouse the suspicion of a non-communicating dilatation the communicating type of dilatation an air-containing space is seen separating the lateral ventricles The roof of the cavity is at about the same level as the roof of the inner aspect of the ventricles, the medial and upper walls of which are sharp rather than rounded off The floor is at about the same level as that of the lateral ventricles Laterally the cavity is the shape of a gourd with the large rounded end anterior

The cavum verge presents the same appearance in the anteroposterior and postero anterior views, but when viewed laterally the dilatation suggests an hourglass The cavum septi pellucidi, becoming narrower posteriorly, widens into an oval cavity which is interpreted as a dilated cavum vergæ

JOHN WILTSIE EPTON, M D

Cowan, A Ophthalmic Symptoms in Brain Abscess Ann Surg, 1935, 101 56

The author reviews the ophthalmic symptoms in forty-four cases of verified abscess of the brain

Of the seventeen cases of abscess of the frontal lobe, ocular signs or symptoms were absent in only one In five, the abscess caused exophthalmos, swelling of the lids, chemosis of the conjunctiva, and pain Orbital involvement was present in seven cases without exophthalmos In one case, pain and tenderness of the lobe were present, and in another there was lagophthalmos All of these findings occurred on the same side as the abscess Bilateral choking of the optic disks was found in 82 3 per cent of the cases of this group. The average elevation was 4 diopters In three cases the choking was higher in the homolateral eye, in three it was lower, and in seven it was the same in both eyes

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of attacks of choking and strangulation. The 408 performed. However in cases of perforadities performed. However in cases of perforadities policy is a full performed that the performance of the p lows : \$ griffs or an intercon of the condition thanes the incidence of a mild type of the condition I which recovery results authors oberation I

gre ter than the incidence of severe types ere let trass tox increases on exercit types are reason for this is that infections limited t the reason for this is cast functions united from anytenoids occur more often in the latter group that in the cases due to hyphold. If necrods of the time in the cases the danger is just as great in cases of the

cricou occurs, me canger is just as great in cases The authors process that II distance is become Ine authors propers (not it uyspecers is present trachrotomy should be done rarly. In militarial rescurroncy around or come carry is waterful perfections tritle limited to the aryterodd it is said to personners amiled to a systemate it it sat that bilateral favol ement very often causes walls the marcial surve come very serior trefers source and transcorous is necessity; received to the lossest transcorous, the seeking of the cariflage mentily received. If it does not recede in week, the presence of ostromyelith of the about need, the presence of ostromyruits of the

condition should be given through a large process condition about the gives inroduce a surgeous per (lap represent). It is not necessity it removes the entire anytenoid, but the medial surface should be course acycenamic use the marrow carry with a very curries out town the marrow carrier and a recy anally curves as the cause of control of the part is sequentialing, removal of all or most of the ary broad is necessary lines can be done without distribution, prediction of carefus a functional distribution, pr names or cooming a constraint contention, pro-rided the lateral portion a th is removal, attachary tenord is necessary those the parties houring a in a language strategies ments in lett 1 for 1 cases or waveferest successes and destruction of the thyroid cardiage 1 th the and destruction of the taylord cartuage the lary god infection of only and crectory is increased the cardiage hould be exposed through a external thousand, the mount or experient impages and the berea their drained This procedure is very sample if facture araned the bencentre is act, and an incine throat as arready present over the outer senate is the carrier of the larges should not be made uless 1 is sirenily indicated Change superacons peccesses of the thyroid cartilage occasionally cause fee alone. The inginou caccurage uninamonany cause (see eagus 100 diagnoses ma) sometimes be trade from the appear

As rule esteem ehit is present in infection of As rue oscoun one is a reach should be made for ance of the pyriform fores the crucous and the region of the confided parts toe interiore area to the region of the onfertion, if the entire cartilage is desired of its the infertion, the jax) or marry) collabors and marked stenoors Sometimes however releation of portions source sources and present methods or portions of the cricoid a II present methods page. An effort or the cricing a u prevent such courses. An enter a should be made t as as much of the cartulage as

Cartifuse winch is in part still firmly adherent ratings and is in last an intuit americal and should therefore not be removed. E. en cartilage that be been damaged can beat back int place This is true of the versors bryngest cartiages, ama is time or the values larynges carriages. Accordingly the surgeon should not be too radical necognity the surgices amount the us the sectors.

I treating the exceed as is preservation is pecuan treating the cricoid as is preservation is secur-sary to sual tain the function of the largest. Affected

part of the thyroid especially the cardiagnose portions that have become esparated from their portuous tast nave percone separated from their perichondrism, can be removed without hesitation renumentaries, can or renorm without neutrons. Almost the eather thyroid earlilage can be removed. Airmont the swifer to road cartings can be removed without impulsing subsequent function. However, it nimost unpaining superpure liberion, nowever in not salviable to free the perkhasdrian from the i nor surreadur co irec ine percaonanem from the cartilage by means of a cherator without good reason as cartilage which is firmly adheren is

Zard a microscopic studies made in the case of a child ten years old showed that defects in cardiag most always healthy cause ten yvara our service may become rapidly covered where my parections may become rapidly correctly these growing from the principle chondrium, and that this tissue contains cartilars

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Pharyaged tumors in gracest, despite their histological haracter are more often rationership than temore of the adjacent oral ca live latitude inan tumore of the solutions of the cherk bacels largest, or creophages. Lesions of the cherk bacels mucosa) alreads ridges, america portice of the macross affects makes america person of the topers, and hard palet trad to be more adold in tongers, no saro paint tend to no more south in character and less reduserablises Exerts in case. of ramor of the total and infinite laying even in teralital tradition is difficult and smalls action Although townills growths are surgedly acceptable. nationage commission are surfaceast accommon the results of their treatment by operation are pro-

I early cancer of the transc lary as surfacil rea vary camer or the transmit as solitant moral by hemilay agertony or total lary sectory bas yielded excellent result although these some tions at any cause partial or total loss of lay ages Laction Whether the divided dose method of cr. terms in account two divided dose method of the introse la 7 oz 18 as et univored l'afector of the intriume uny un is as et uny sov ed intercon ou isse tional method. Central accross of the transc man tuonal method | entral secrous of the turner mean of a Progenic abserts a thin the growth before the disadvantage from the treatment is begun in majorantiage from the standpoint of prognoses, but in min cases no also morthood of treatment in possible. The athore out. debut greers form of position treatment with devided doses in which all factors are first while the tree of the lin portal and the moral of

errept use sire of the him portal and the the daily done. The technique is as follows. Now usually some interaction to as notices as the control of the c

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3 Radium element pack with filtration by 20 mm Pb (equivalent), a distance of from 10 to 15 cm, and an applicator portal 10 cm in diameter

The radium-element pack contains 4 gm of radium. As vet, it is impossible to express its output in reentgens as the measurement of gamma rays in roentgens has not been settled to the satisfaction of

all radiologists The authors state that in 1931 they began using open portals from 80 to 150 sq cm in area skin portal must obviously include the primary lesion and all cervical metastases within the range of the primary beam. One of the advantages of a large skin portal is the assurance that all foci of the disease are included. However, there is a definite relationship hetween the size of the portal and the general tolerance with equal doses expressed in roentgens This heing true, it seems illogical to use portals from 10 to 12 cm in diameter in treating a localized lesion alone or with a superimposed metastasis 2 or 3 cm in diameter. While larger portals undouhtedly deliver a greater tissue dose at a depth, the limits of tolerance are approached too closely in the use of such portals. The authors therefore employ smaller portals more carefully

If the beam of irradiation is limited by a metal cone attached directly to the tube holder, it may he accurately centered and directed over the desired tissue volume. Such a cone is of practical value for several reasons. As it is placed in contact with the skin, exact localization of the skin portal is more readily accomplished from day to day, especially if the skin ismarked with a dive such as gentian violet. The patient is much less apt to move as the cone placed against the skin surface area of a circular portal is greater than a square portal. The authors recommend that circular rather than square or oblong skin portals be employed whenever possible

centered over the lesson itself

In most of their pharyngeal and laryngeal cases they have used only 2 portals—1 on each side of the neck. In some cases of palatal, tonsillar, or upper pharyngeal wall carcinoma they have found it of advantage to irradiate through the open mouth with the use of a mouth cone. In lesions of the posterior nasopharvnx they employ 4 portals if there are metastases to the neck. In irradiating cancer of the anterior floor of the mouth, 3 portals may be used—I on each cheek and I in the submental region, the irradiation being directed so as to crossfire the primary lesion. The maxillary antrum is usually irradiated through 1 portal although in some cases it is of advantage to use 2 contiguous square or oblong portals on the same cheek. The treatment period and the total dose are increased if this is indicated by the clinical course and local and general tolerance Using portals from 7 to 10 cm in diameter (from 40 to 80 sq cm) the authors begin with a treatment of from 350 to 400 r (measured in air) daily to alternate sides of the neck so that at the end of 20 treatments the patient has received from 3,500 to 4,000 r to each side. In the use of the

700-kv machine with a filter of 5 mm Cu (equivalent), from 400 to 450 r are given daily, a total of from 4,000 to 4,500 r being administered. With the element pack, the authors give about 10,000 mgm - hr daily (cone 10 cm in diameter) for a total of 100,000 mgm - hr in three weeks. They see no advantage in interrupting the treatment to allow the patient several days of rest before completing the original plan, as is recommended for some cases by Coutard

With the doses mentioned there begins, in from six to ten days, a mucositis of the pharynx, most commonly first in the soft palate, the arytenoids, or the arrepiglottic folds. This increases steadily throughout the treatment and usually goes on to the development of a false membrane of diphtheritic appearance which may cover the mucosa of the entire pharynx The lesion reaches its maximum from twenty to thirty days after the beginning of treatment and usually disappears in about ten days It is followed by a decrease in the congestion and cedema The cedema may persist for several weeks or months, depending largely on the total dose given In cases of lympho-epithelioma or transitional-cell carcinoma regression of the tumor may begin as early as the fourth or fifth day, but is usually not apparent until after the first week. The skin reaction appears later than the mucosal reaction definite erythema of the skin is usually apparent after from seven to ten days, but as a rule the skin reaction does not reach its maximum until about twenty days after the heginning of treatment. In most cases it consists of destruction of the entire epidermis leaving a ran weeping surface which hleeds on slight trauma

With the use of large fields and heavy doses, the limit of the patient's general tolerance is reached before the limit of the local tolerance and there is produced a chronic irradiation sickness which is not due to dyspnæa, lack of nutrition, or changes in the skin or mucous membrane The patient hecomes listless, weak, and toxic, loses weight, and develops cachexia This condition is probably due to the volume of tissue irradiated rather than the local intensity of the effect or may be the result of partial derangement of the function of the various glandular, vascular, and nervous structures of the neck. It can be prevented by avoiding the use of large skin portals except when they are required hy wide distribution of the disease The authors have found no changes in the blood picture that could be attributed directly to the irradiation

Loss of weight during and following treatment is due to lack of sufficient alimentation. Even at the height of the reaction, most patients do not complain of local pain while the tongue and pharynx are at rest. Any motion of the tongue and pharynx, as in the act of swallowing, is quite painful, but the local symptoms seldom require the use of narcotics, even for sleep. Beginning about four or five days after the first treatment, there is a progressive diminution in the quantity and an increase in the

viscosity of the saliva. The patient complains of dryness of the mouth and difficulty in wallowing or expectorating the secretions. At the beginning of treatment the authors order brigation of the mouth every two hours with a solution of sodium bicar bonate in warm water. This is done with a s-ot. irrigating can, rubber tube, and glass nozzle Dysphagus is present in some degree in all cases in which a macositis is produced in any portion of the pharynx between the soft palate and the pyriform simuses. In most cases, soft or liquid food can be taken in sufficient quantity to maintain the patient a weight at the time of his admission to the hospital In some cases, especially those of involvement of the hypopharyms, the dysphagia may be more marked because of the combination of pain and swelling of the stytebolds at the height of the reaction.

Prophylactic trachestemy abould be considered in all cases of growths involving the arrienoids, ventricular folds, or woal cords. If trachestomy becomes pacessary it should be done before beginning tractiment in order to avoid the accessity of occessor up theseen in which there is marked radia. then reaction and of interrupting the sequence of treatments. While the skin is in dry state, the authors use frequent applications of selectal silwithout any other decuma. Where the sertices becomes mosts they poly single layers of genes bundage impregnated the bords acid obstreas; and continue this dreading until healing has trives

piace on the tkin is again dry and whole.

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years, 41 (so per ceal) renained fron from disease
for period of from one and three-quarters two
said one half years. Twelve of the latter have been
free from disease for front two: 4 two and one
years. The relatively better prosposis is the cases
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years. The relatively better proposes is the case of femiles has shready been expendanced by Contart The average go of the patients was about the memor in the cases with necessarily results and those with unaccreated results. Practically all of the wind the contact of the con

JOHNS K HARAT MD

# SURGERY OF THE NERVOUS SYSTEM

# BRAIN AND ITS COVERINGS, CRANIAL NERVES

Fay, T The Treatment of Acute and Chronic Cases of Cerebral Trauma by Methods of Dehydration Ann Surg, 1935, 101 76

Fay states that statistics show a definite reduction of the mortality (rr 4 per cent) in cases of acute cerebral trauma treated by dehydration therapy In his treatment of such cases the usual conservative treatment, including the administration of 50 c.cm of a 50 per cent solution of glucose, is given during the period of shock, and from roo to 300 c.cm of saline solution may be given to combat severe bloodvolume loss of fluid After the period of shock a lumbar puncture is done, roentgenograms are made, and the wounds are sutured Hypertonic solutions are given by mouth, rectum, or vein, depending upon the general state of dehydration If the spinal fluid is clear, 20 oz of liquid and a "dry" or solid diet are allowed If the spinal fluid is blood, 30 oz of liquid are allowed and this amount is maintained until daily spinal drainage is discontinued upon the recovery of xanthocbromic fluid The patient usually leaves the hospital after from ten to twelve days and on discharge is given specific instructions as to diet and the maintenance of debydration. The daily weight is used as a guide to water storage as r pt weighs approximately r lb

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ROBERT ZOLLINGER, M D

Pendergrass, E. P., and Hodes, P. J. Dilatations of the Cavum Septi Pellucidi and Cavum Vergæ Ann. Surg., 1935, 101–269

Three cases of dilatation of the cavum septi pellucidi are reported. All of the patients showed a quantitative intellectual reduction with inability to concentrate. Two showed a tendency to be euphonic and jocose. All suffered periods of unconsciousness at irregular intervals, and two had clonic convulsions. Among other signs were speech defects, incomplete motor weakness of the extremities, severe headache, loss of deep sensation, and ataxia. In one case there was a loss of part of the visual fields. The picture differed from that of

lesions of the corpus callosum in that somnolence and motor apraxia were absent.

As seen in ventriculograms and encephalograms, the normal septum pellucidum ranges in width from r 5 to 3 mm. A greater width should arouse the suspicion of a non-communicating dilatation. In the communicating type of dilatation an air-containing space is seen separating the lateral ventricles. The roof of the cavity is at about the same level as the roof of the inner aspect of the ventricles, the medial and upper walls of which are sharp rather than rounded off. The floor is at about the same level as that of the lateral ventricles. Laterally the cavity is the shape of a gourd with the large rounded end anterior.

The cavum vergæ presents the same appearance in the anteroposterior and postero anterior views, but when viewed laterally the dilatation suggests an bourglass. The cavum septi pellucidi, becoming narrower posteriorly, widens into an oval cavity which is interpreted as a dilated cavum vergæ.

JOHN WILTSIE EPTON, M D

Cowan, A Ophthalmic Symptoms in Brain Abscess Ann Surg, 1935, 101 56

The author reviews the ophthalmic symptoms in forty-four cases of verified abscess of the brain

Of the seventeen cases of abscess of the frontal lobe, ocular signs or symptoms were absent in only one. In five, the abscess caused exophthalmos, swelling of the lids, chemosis of the conjunctiva, and pain. Orbital involvement was present in seven cases without exophthalmos. In one case, pain and tenderness of the lobe were present, and in another there was lagophthalmos. All of these findings occurred on the same side as the abscess. Bilateral choking of the optic disks was found in 82 3 per cent of the cases of this group. The average elevation was 4 diopters. In three cases the choking was higher in the homolateral eye, in three it was lower, and in seven it was the same in both eyes.

Choking of the disks averaging 3 0 diopters occurred in 55 5 per cent of nine patients with abscess of the temporal lobe. In three cases the choking was always greater, and in two it was eventually greater, in the homolateral eye Homonymous hemianopic fields corresponding to interference along the optic tracts on the side of the lesson were found in three cases Homonymous hemianopsia on the opposite side was found in one case and a corresponding inferior homonymous quadrantanopia in another In two cases the pupils were unequal and showed a sluggish response to light. In both, the smaller

pupil was on the side of the lesion

In 428 per cent of the seven cases of abscess of the parietal lobe there was an average choking of 5.3 diopters. The only external ocular sign was paralyses of both external recti muscles in one case. In three of the seven cases there were no ocular signs or symptoms.

Of the four cases of shaces of the occipital lobe, the optic dials were affected in all. In the three cases in which it was measurable, the choling weraged 5 8 deopters. A patient with basilar memoritis

presented bilateral ptosis

In 318 per cent of the seven cases of shacess of the cerebellum the optic disks showed an verage clevation of 25 dopters. In its cases variety of nystagmoid movements occurred, and in one case there was parents of configure upward rotation Ophthalmos signs or symptoms were present in all

but one case
Of the entire series of cases, choking of the disks
was found in 63 6 per cent. The fact that fourtees
was found in 63 6 per cent. The fact that fourtees
to the twenty-right patients with affected nerve
beads had an uncomplicated pupilizedons suggests
that, in abscess of the brus, blocked disk is due to
forcessed interactual pressure instead of the
supplies of two material. However: I shifted
supplies the disk material. However is the steesupplies the degree of choking remained the same
or was increased after operation.

One or more ocular signs or symptoms were found in all except wa of the forty-four cases of abscess of the brain ROMANY ZOALDWAR, M.D.

Adson, A. W and Craig, W McK. The Surgical Management of Brain Absceet. A s. Sery

Adon and Craig report a cinical and postmortem review of nuntry-seven cause of cerebral abscuss which were treated by fire surpeons in the Neurogrand Department of the M yo Clum. Forty of the abscrsses were situated in the frontal loke, thirty-six in the temporophomodal, it in the occupial, and thurteen in the cerebralar. The remaining as had miscollassous distribution.

Because of the greater frequency of because in the temporosphenoidal lobes than in the corpellium, Adson and Crazy he a made t rule t explore the temporosphenoidal lobe before exploring the cere bellium on the note of the infected car when cerebral abscenses follow infections about the car with loadsnite localizing symptoms or conflicting signs of localization.

In re-randing the protected of Microwen cases of cerebral shacess, they were impressed by the fact that in most of the cases there was a kistory of crassical control of fortugation or more. They before that Microwes scellent results ere due chestly to the fact that satisficant time chapsed for insumity and excapacitation t become established before covernious was undergulated.

They state that his the surpress drainings of a brain becam removes clive organisms, it is probably more beneficial in disposing of the intracristical mass. The arguments for delaying the drainings of cerebral became used it is most marror—that is, until the occurrence of encapsulation hick suggests the extablishment of immunity—are comparable to those for the delay of drainage of other inflammatory lesions of the body. Drainage of the abdomes is rurely advised for acuta pentonitis, whereas it is unreal after an abscess has been formed.

The authors advocate supportive treatment during the initial stage of infection and delay of draining until the chinical sigm indicats the cetablishment of immunity. They praid a dequate continuous draining through a surpically scaled cerebral wound to the various conservative and ultravidical measures that are employed.

Bennett A. R., and Kargan, J. J.: Corebral Heaplesons. The Diagnosis in the Absence of Gencyalized Intracrantal Pressure Phenomena. J. Am. M. Astr., 235, 24. 2.

The authors present tweive cases of created secplasms is which the characteristic tried of synaptons of generalized increased intracancial pressure we absent. Nose of these cases presented charges in the (note, and in only two of them was the spisse).

fluid pressure bove mm Hg A review of the Sterature shows that headache, the most prominent symptom of brain tenor is absent in at least per cent of cases Papalicedums is absent in from 5 to 30 per cent, and vomiting is even less treesunt. Hondache, vomities, and papillordeme are present together in only about to per cent of the cases. Local pressure signs caused by intracerebral calcification, rarefaction of bone, increased dipiole vessel markings, and shifting of the pineal shadow are very important in the early diagnous of brain tumor before the onset of increased intracranial pressure. Among the common early signs of brain tumor are epsleptiform attacksgrand mal, petit mal, or jacksonian sciences. Frontal lobe neoplasms are often manifested first by psychic disturbances.

In the authors' tuckes cases the most valuable single early diagnostic sign was feeal spasm. Jack soman seizures occurred in eight cases. The excess symptom in one case was amordom change in third, proanother propressive biladoses in greades charatorm movements in a fourth, recer rent besilparetic attacks and in fifth, beliangs with diplopis In six cases, the romigenegram showed localized changes suggestive of localized pressure with other conditions suggestive of an intracrapial neoplasm In seven cases encrebalographic studies were made and led t the diagnosis and accurate localization of a tumor. Four of these cases presented marked distortion, compression, and deplacement of the lateral ventricles, indicating a large tumor but there was no definite increase in the Intracreated presente D vio Jone Incarrato, M D

liarding, H. E., and Nahh, A. E. Mined Turners of the Brain. Lenest, 914, s5 77

Two cases of mixed tumors of the brain are report ed. One of them showed characteristic disturbances of lesion i the hypothalando repon

In 1930, Hosoi reviewed seventeen cases of teratoma and twenty-three cases of teratoid tumor and reported a case of teratoma In all, the tumor was at or near the midline, and in most of them it originated in the pineal body or the pituitary Less frequent sites were the choroid plexus, the tela choroidea of the third ventricle, the brain substance itself, the region of the tuber anereum, the cerebellum, the cerebellopontine angle, and the inner surface of the dura mater In size, the tumors varied from that of a split pea to a neoplasm measuring 8 by 10 by 12 cm Most of them were cystic Ectodermal and mesodermal structures were most Most of the teratomata occurred in males, and 78 per cent of the patients with a teratoma were under twenty years of age In one of two cases reported more recently, the tumor occupied the distended sella turcica. In the other, there was a large cyst in the right hemisphere which was unique in being situated away from the midline

In one of the two cases reported by the authors a lobulated cystic mass measuring 2½ by 1½ in occupied the entire cavity of the fourth ventricle and the foramen of Luschka and Magendie was occluded by thickened meninges. The patient was a girl six weeks old who was brought for examination because of a swelling of the anterior fontanelle which was first noted four days previously. Before the child died at the age of one year, enormous enlargement of the skull occurred. In the last two months before death the circumference of the head

increased from 1734 to 22 in

The author's other case was that of a girl nine years and eleven months old As an infant, this patient had slept motionless and for longer hours than the average Later she was noted to be very undemonstrative, never showing joy or excitement She apparently felt fear of loud noises, darkness, solitude, and certain persons. She told her parents she was afraid, but her expression and voice were calm She evidenced anger only by a sudden refusal to comply with suggestions She had some sense of humor and would laugh at a funny situation She was very loyal to her parents and a few friends, hut to callers and acquaintances was so off-hand as to appear rude She was resistant to suggestions All her life she was subject to frequent sudden rises followed by sudden falls of temperature hearing was acute, her mentality good, and her memory excellent Her balance was never good, she had less than average ability to recover after

Three years before her death she had mumps and whooping cough in quick succession, during which illnesses she showed marked wasting Immediately after these illnesses she drank large quantities of fluid and passed large amounts of pale urine. The polyuria continued until five weeks before her death, when it ceased abruptly. After the illnesses the patient showed a further diminution of emotional reaction. During the next winter she felt the cold intensely. During the heat of the summer before

her death the sensation of cold became so severe that she wore a coat at meals. The feeling of cold ceased abruptly about three weeks before her death Following the pertussis her powers of concentration steadily decreased. About five weeks before her death her vision failed rapidly, but she admitted it only after attention was called to it by her staggering gait.

The findings of examination at the time of her admission to the hospital included hypotonicity of the muscles, pallor of the central area of each disk, a comatose condition, and a temperature of 101 degrees F Later the temperature fell to below

normal

On postmortem examination a firm encapsulated tumor with a smooth lobulated surface measuring 3 by 3 5 by 4 5 cm was found projecting from the hase of the brain in the hypothalamic region behind the optic chiasm The pituitary gland appeared to be normal.

EDWARD S PLATT, M D

Roger, H, and Paillas, J-E Metastatic Tumors of the Brain (Les tumeurs cérébrales m tastatiques) Presse méd, Par, 1934, 42 2093

The authors have been able to collect only about 200 cases of metastatic brain tumor from the literature, but believe they are much more frequent than

is indicated by the records

Nearly all brain metastases originate from epithebal tumors, particularly tumors of the lung or breast. A hrain metastasis may be the first manifestation of an epithelioma of the kidney, suprarenal, or other viscus. Lung metastases are generally propagated by the hlood stream and involve the parenchyma, while metastases from tumors of the hreast are transmitted by the lymphatics or nerves

and involve the meninges or cortex

The chief subjective symptoms of a metastatic tumor of the brain are headache and clouding of the intellect The headache is constant and occasionally is accompanied by signs of increased intracranial tension The clouding of the mind takes place early Both of these symptoms seem to be of touc rather than mechanical origin. In fact, hypertension is relatively rare in their presence. In many cases gen eralized convulsive seizures occur, in some, there are localizing jacksonian attacks. The tendon reflexes are frequently decreased or ahoushed and the pupil reactions are sluggish. Sometimes there is a mild meningeal syndrome The general condition depends on the primary tumor rather than on the metastases There may he a temperature of from 38 to 38 5 degrees C suggesting encephalitis. The localizing signs are much more difficult to interpret than in cases of primary tumor of the brain. Metastases from the lung are almost always multiple and their localizing signs are very confusing. The eyegrounds and roentgenograms do not show signs of hypertension, and the spinal fluid does not present a characteristic picture.

The course of the condition is generally rapid and ends in death from extreme cachexia. Treatment is

generally hopeless, repetally in cases f multiple metastase from the lungs However in cases in which there is a single notate from cancer of the hreat it may be successful. Reenigen therapy has been employed successfully by Huguenin, Myriam, and Lieberson, and the authors report case in which it was followed by cression of the Jacksonia ttacks and alleration of the benduche.

AUDREY GOM MORRAY M D

Voris, R. G., Adsen, A. W. and Merrsch, F. P. Tumors of the Frental Lobe: Clinical Observations in a Series Verified Microscopically J. Am. M. Am. 205, eq. 93

This article reports the findings of an analysis of the clinical observations in series of 3 4 cases of tumor f the frontal lobs observed t the Mayo Clinic p to January out in which the temor was examined microscopically. The cases were classified according to the anatomical site and the pathological type of the lesion. The age and act of the patients with each pathological type of tumor are given. The authors discuss each type of tumor with regard to the duration of the symptoms before the patients came to the Clinic the initial complaint in relation t the anatomical site of the tumor the frequency of the principal complaints made when the patients registered t the Choic, the principal observations made at examination, including room genographic examination the mental phenomena and the side of the brain involved by the tumor to relation to the occurrence I grand mal, phasis and mental changes.

Dyke C, G., and Devidoff, L. M. The Significance of Abnormally Shaped Subarachnoid Cleteros as Seen in the Encephalogram. Am J. Recolgrad 934, 33 743

The authors describe deventions in the subarrabodd cuttern which ern noted in an examination of you encephalograms and discuss the relationship of these abnormalities to the discuss process. They conclude that study of the subarrachood distress in exceptionarms and in the diagnosts of tumors, according, and does not diagnost of tumors, as continues, and does relately of the cuttern. Followchincial histories in reviewed

ROBERT ZOLLFWER, M D

Gleser M. A.: Turnors Arising from the Sensory Root of the Trigeminal Nerve to the Posterior Fessal. Aus Surg. 935 146

Tomor of the guarding pt gloss are exceedingly are theory it is thought that their runting may be due in part to their being reported under different explose. The other proper case of perfected shroblastoms of the fifth hereve bick was analogous to the perimetrial Shroblastoms of the eighth serie. From this case and three cases collected from the hierature be concluded what chalcal studies of permeatrial Shroblastoms of the fifth service may be recognized. Togenshall pains in been

because the grangiton is not involved, but evidence of trigenished unrole steem its consistent and early ynaptom. Such involvement is manifested by concrase or bease of the corneal refer and earst their sores the distribution of the nerve, particularly the ophthesials division. With econocidence for the cerebellium, cerebellium, signs become on the cerebellium, cerebellium, signs become post rectain to create place and propose rectain to create place and propose rectain to create places a graphene and apraint, that the tast exceptions of intercreating preserve with the latter development of intercreating preserve.

Person of remission are characteristic.
In cases of tumor straight in the progion there is assailly pain as well as anseal-beals in the distribution of the tragential nerve. Correllar signs are extensed between the contract of the contrac

Ostrowski, T., and Dobrzaniecki, W. Peripheral Facial Paralysis Treated by Cervical Gandleovectomy (Paralysis Ianale phrabbings inside par la gangliscionie cervicale) J de cler. 935

In the restincts of peripheral facili pumples, various nerve anatomous law best ideal to the best of which is probably maintenance of the facilities of which is probably maintenance of the facilities and is periphenologically maintenance of the facilities of the peripheral pumples of the peripheral facilities and properties of the peripheral facilities of the peripheral facilities of the peripheral facilities of the particular facilities of the peripheral facilities of the pe

facial paralysis

Although the reaction of degeneration pensits
and the paralysis remains, the signs of the puralysis
disappear because of the change in sweets towns

brought about by the exection of the gaughos. The thorn are smaller t expect the reflect of the expectations are not to the paralysis. They state that if all paralysis is affection of muscle tears, they believe it quit possible that surgery of the symptthetic will become the treatment of vanous types of narilysis.

Peet, M. M. Glossepharyageal Neuralgia 5 arr 015, or 16

Glostopharynessi neuralgia is rare compared with trigeminal neuralgia, but undoubtedi more common than has been believed From careful study after section of the glossopharvingeal nerve it has been determined that this nerve has no demonstrable motor function and that its sensory distribution includes the posterior third of the tongue, the antenor, lateral, and posterior walls of the pharying from the lower nasopharying to the epiglottis, including the posterior aspect of the latter, the tonsil, the pillars, the custachian onfice, and a narrow rim along the front of the soft palate, including the uyula

The onset of glossopharyngeal neuralgia occurs without prodromal symptoms or other warming Talking, laughing, coughing, yawning, or sneezing may be the exciting factor, but the most common exciting factor is swallowing Suddenly, during talking or swallowing, a sharp, knife-like pain shoots downward from the ear, the base of the tongue, or the postenor pharynx It is gone almost as soon as it begins. As in trigeminal neuralgia, the pain occurs in paroxysms and is vanously described as sharp, shooting, lancinating, knife-like, jabbing, or flashing. As a rule even the first paroxysms are described as excruciating, but in exceptional cases the patients state that the initial attack was mild although the pain was sharp. After the onset of the condition the pain is produced by stimulation of trigger zones and by talking, laughing, or eating In the cases in which the initial attack is mild, the onset of severe symptoms is usually not long delayed As in ingeminal neuralgia, there are intermissions and remissions and the pain may be confined for a long time to a single division of the nerve. Also in both types of neuralgia, physical examination is negative with reference to the painful areas diagnosis is based entirely on the history and the induction of pain when the trigger zones are touched. The cause and pathological changes are not known

Glossopharyngeal neuralgia differs from trigeminal neuralgia in the distribution of the pain. In the latter, the pain occurs in the distribution of the nerve, usually in that of the third division. In the former, it is usually located almost entirely in the mouth, though there may be flashes of pain through to the ear. The trigger zones are also different in the two types of neuralgia, those for the ninth nerve being located within the mouth or at the lobe of the ear and those for the fifth nerve generally on the

outside of the face, along the distribution of the nerve

In the treatment of glossophary ngeal neuralgia intracranial section of the minth nerve is the treatment of choice as it is simple and quickly performed, it gives positive assurance against recurrence, and it does not endanger the vagus. A U-shaped incision is made between the mastoid process and the midline postenoriv. The nerve is easily located and divided with a right-angle knife.

#### JOHN WILTSIE EPTON, M D

#### PERIPHERAL NERVES

Saito, M Normal Shadow of the Peripheral Nerves and Their Pathological Change in Injury and Tumor Am J Surg, 1934, 26 300

The author presents a method for the roentgenological visualization of penpheral nerves by the endoneural or intraneural injection of thorium dioxide solution (thorotrast). He reports the results after the injection of normal ulnar nerves and of injured penpheral nerves with and without neuromata.

The injection of the thorotrast is carried out

before, during, and after operation

Saito found that, following the injection of thorotrast, the ulnar nerve could be roentgenographed for a maximum length of 30 mm. The roentgenogram made by this method revealed not only the nerve fibers, but also the internal and external sheaths of the nerve It is therefore possible to use the method for neurohistography. When it is applied to an injury of the nerve it will reveal the injured part clearly. As the opaque substance injected into the penphery will not infiltrate into the center over the scar on the nerve caused by the wound, a defect in the shadow will appear at the site of the scar It is therefore probable that the method will be a great help in the roentgenological diagnosis of nerve injuries. If it is applied to the diagnosis of neuroma it will show not only the form but also the structure of the neuroma together with the stem of the nerve penetrating the tumor This being true, it will be quite helpful in indicating treatment. It will not interfere in any way with the function of the nerve or produce any aftereffects such as neuralgia O W JONES, JR., M.D

# SURGERY OF THE THORAX

## CHEST WALL AND SPEAST

Parriell, R. The Pathodecosts of Cystic Mantitle Couls pategrees della mastic danca) (lis. chr

The name cratic fibroals or craile massilis is police t various cratic structures of the breast and product to designate a clinical syndrome rather than a definit disease. The name Rectus disease, see the ordini macase 100 name account character as make a process with it as Recita described a definit ducase which does not include many of the condiunesse which does not notice many or one concu-tions described as cystic markitis. According to the four checi theories with regard to the pathogenesis of Chaire marting the coupling is ( ) secondaries of offenmenory (3) due to congenital malformations,

The author describes create mastitus as a hyper and (4) due to involution Line square infections of the connective teams of the plants and scierous of the connecture is the out and the said of the ducts at those stand and Cyatic chiaration of the ducts at those stand and cyatic chiaration of management. Time distinct or instructoriest styre of management. clinical or instrumental stone of maharance) sees develops then y and passes through the follows oses correctly small son immer transfer the recent use turre suspers (1) a susper or surpless turreness in the create increase in size and dumber and (3) the create increase in size and dumber and (3) the Creek increase in any and number one U. ourse to prepare the course of the proper services and the others are found in proper services. The stages are related properties of the properties of the stages are related to the course of the stages are related to the stage

special physics of sexual development The other describes in detail and shows with the arrow describes in occasi and some a tree Cases of the moment that the same and forty years of ago cases on the sometime times cases the instory and respectively. In both of these cases the instory and the fishings of clinical and instological examination sufficient that the came of the disease are the in familiatory tubercalesis of the micase was the in Terriche Percenti belleves that t least in some LARRICON CASCA, the development of cyalic mastitus is deter mined by the effect of torse tuberculous ledons miner by the extent a sage and endocrane cools nancion of the laming a see your pout the true of

enogenese. In other cases in the papillomatous stage there is a in other cases in the paperiocenters as age there are marked resemblance t makening tumors, and markers researched occurs duly tredesitty Oce menopa nas of the sizes in such cases in presents of the mobile or the summ in such cases as thorough or the super-

the upple radeal removal of the breast should be done even ( the tumor appears bemen

Milh A A Contribution t the Knowledge of Prit the Borns of the Bresst (Contribute 25a contribute of the Bresst (Contribute 25a contribute 25a THE MORTHS OR THE THERMAL (LORITHMENT AND COMPANY CREEK OR! PRINTEDWAY OF THE PRINTE CERER OF PETITORISM OCCUP MERCHANISM (1987) 934, \$ 1003-

Bull reports the case of woman sixty four ) cars of see and entered the possital complaining of

tenor mass in the right breast which had been present for two years. Histological examination of the tennor following its removal showed it t be perf-

The cutstanding macroscopic feature of the peoplesm s a concentric arrangement of the property was a concentre arrangement of the thelloms conser ceus around central vessel inces cen-ners rather large and showed little variation is size ncts tainer serge and serve of unite variation is sur-They acre round, orold, choquated, or stellate. The incy were round, oroni, congains or security and the nectors was large and stained deeply, and chromatin was deficately reticulated. Illinois were caromana was occurred renomined aircons were not very numerous, and few of them were stypical

The helpdatem was searce and homogeneous and and proving a series and noting endobetters and proving a few years the endobetters statuen poorty in a law yearen the encountries showed problemation which was sometimes so ex A few months after the operation the patient retensive as t favade the lament

terned a the recurring temor near the sear. The beological a to a servicing range (or preciotive creative control of the control neopesan ano was removed. On manoagest case-nation 1 was found 6 be rounded account Although it seems possible that pertibebonate

nutrangu it seems presents that peritamentals and endo, may be easily contused a the sarcousts and endo-thebomata, Billi believes that these three types of these may be differentiated by careful histografia tuner may be unformited by carries that the examination is possible only by histological exam-

In the case reported there as not the singleton as the case reported there as not the storage doubt that the peoplesise eith of the receipts come that the properties can of the treatment is the properties of the treatment in the control of the treatment is the control of the treatment in the control of the treatment in the control of the co instice tumor were susmitted while the control is the primary tumor. The only difference was thet in the

tecrnis 2 romos no best-sascap neodraspe ktosty na communications. The author behaves that the surgical interference

may have acted as a samples to the transformation and demonstrable may have acres as a summing the other sizes that been from one tumor type to the other sizes that been shows that surprise interference, has over taking to show that surprise interference, have or rather not only mostly the course and the ratio of growth Of transcar por man transport one mapsing range numers, not may transform one management aspects The thor is of the opinion that the import of the are derived from the returnly-endochellal system

Loreste, A. via Californ, F. Prager's Discourse of the Nights (La maladis de Paper du mercelon) Press Nights (La maladis de Paper du mercelon) bether Paret's mile Par 934, V 9

at remains a matter or dispot better rapid these of the apple is precaperous dysterates. disease of the apple is presentents d) sherrices of organization origin, an epidemotropic and the control of present original and present of present original cases of the control original production of the control or original production original production or original production or original production or original production or original production original production or original production orig thors report in detail the lifetological cer and thors report in detail the miscongress families in four cases of Paget's desease in which nnungs in mer cases of raget's discuss in wines complete removal of the maximary stand permitted

Combined and shatehasine study of accious numbers introduce to the inexpensity areas in

The findings in these cases did not seem to support the classical theories as to the origin and nature of the tumor The scantiness and frequent absence of dyskeratosis in these cases seemed to indicate that the lesion was not a precancerous condition point of origin of the neoplasm may be in the cylindrical epithelium of the milk ducts, the margin of the epidermized epithelium and the cylindrical liming of a milk duct, a sebaceous gland, a serous secretory gland, or a sudoriparous glomerule The rate and extent of the growth of the lesion also vary according When the tumor originates in the epidermized epithelium of the duct it grows both upward toward the epidermis and downward toward the gland When it begins in the cylindrical epithelium of the duct, the malignant cells extend between the layer of Boll and the exbuducal layer, destroying the latter, obliterating the lumen, and rupturing the membrane and fibro clastic sheath of the milk duct to penetrate the stroma and reach the epidermis by isolated elements This type of in-

vasion seems to be the most common Deformities of the nuclei and asymmetry of the

The clear turgescent cells show a tendency toward vacuolization, and the pluricellular confluences ap mitoses are the rule

I mally the malignant cell seems to gain the epiparently explain the theca dermis by its special mobility in the interstitual

spaces

The authors reject the conception of disheratosis as a cancerogenic factor in Paget's disease. They state that disteratosis, a distrophic condition, could not constitute the precancerous stage of a ma lignant lesson The) believe that the theca has a vacuolar origin and that segregation of the carcinomatous cells plays no significant part. The melanoid pigment frequently found in this cancer has quite mother significance than that which prompted Darier to suggest a possible relation between Paget's disease and navocarcinoma All glandular epitheli omita of the brenst propagate to the skin and at the epidermis become pigmented In various tumors the mulanoblasts are not concerned. They are merely a manifestation of hyperactive tissue metabolism There is no transition from the dyskeratotic cell to

Latent cancer, such as Bowen's disease and Paget's disease, corresponds to a secreting epithe the Paget cell homa usually of galactophore origin but occasion ally 11-0 of sebaccous or sudoriparous origin. It is quite probable that the epidernus like its deriva tives, may occasionally constitute the initial focus but such an origin can be demonstrated only by

The common embry ogenesis of the original tissues examination of the entire gland of the e neoplasms explains the identity of cellular types noted in each case whatever the point of origin I rom this point of view, Paget s disease is a regional malignant neoplastic reaction of the ecto derm and its immediate or more distant derivatives

Pfahler, G. E., and Vastine, J. H. The Technique and Results of Irradiation in Carcinoma of the Brenst Am J Roenigenol, 1905, 33 41

The authors have been unable to standardize the technique of treatment of carcinoma of the hreast for all cases They adapt the technique to the re quirements of the individual case As metastasis occurs more readily and widely in fat women, they distribute the irradiation more widely when the patient is fat Also in the cases of fat nomen they limit the total irradiation in any one field as fat does not stand as large doses as other tissues

The authors describe their technique for irradia tion of primary carcinoma and for pre-operative In the pre-operative treatment, which requires about two weeks, the patient receives from 700 to 800 r divided in 2 doses If she cannot or will not be operated upon, interstitual irradiation with radium is given according to the keynes technique and this is followed by additional roentgen treatment, the attempt heing made to keep the tissues saturated to the limit of normal tissue tolerance during a period of three or four weeks

For the more advanced cases in which the supra clavicular lymph nodes are involved, at least 3 times this amount of treatment is advised. If operation is done in these cases it should be deferred

In postoperative cases a similar plan of treatment for two or three months is carried out except that low voltage roentgen rays are used in the mammary region as well as the anterior mediastinal region as here it is necessary to send the rays directly into the chest wall. At least as much postoperative irradition should be

The authors have treated 22 cases of carcinoma given as is given pre operatively of the breast by the modified Levnes method Of 19 patients with primary lesions, 13 (59 per cent) remained free from gross evidence of the disease for 7 period of from fourteen to trenty-seven months Two were alive a year or longer after the treatment, but showed gross evidence of the discree died of the disease and one died of an intercurrent infection. Three who were treated for recurrence died within from six to fourteen months after the

The authors have treated 254 cases of primary carcinoma of the breast by irradiation alone, chiefly treatment roentgen therap. Of 195 patients, 76 (30 per cent) were hving at the end of three years, but 11 still showed evidence of the disease Of 181 patients treated more than five years before the follow up, 43 (24 per cent) were still alive at the end of that time but 4 still had gross evidence of the disease Of 124 patients treated for inoperable carcinoma, 25 (20 per cent) were still alive and vithout e idence of the disease ten years later. Biops es were not

The authors have treated 476 cases of recurrent carcinoma of the breast. In such cases there can be done in these cases little doubt as to the correctness of the diagnosis Of 453 patients, 21 per cent were free from evmp

toms t the end of five years, and of 385 patients, toms I me enu m nve years, and os 300 justicuts, 8 per cent a era free from ymptoma I the end of 418 recurrence within

The patient who occupies recurrence within the patient who develops a recur expectancy than the patient who develops a recur ten years

exportancy than the patient and derection a recur rence later. This is probably one to the fact that react rater and is properly one to the fact that the earlier measures are more radiosensitive. The one cannot mercanesca are more recommensure and earlier irradiation is instituted after recurrence the

The uthors is your combaned pre-operative and longer the hi expectancy ine utnors invoc combaned pre-operative and postoperative bradiation and surgery in operable They stat that in cases of authary involve-

cases 1 new stat time in cases of aximary involve-ment in which bradiation is combined with surgery ment in annua irraduation is command arts surgery the number of five-year cures is double that obtained in cases treated by surgery shone

## TRACHEA, LUEGS, AND PLEURA

Redblorn, C. A. and van Hazat, W. The Results intorn, C. A. and Van Razet, W. The Resolu-tor Extrapleural Thorsecoplesty in the Treatment of Pulmonary Tuberculosis. J. Thereca Sarg. This article is a review of the results of thora

copiesty since it became an accepted method of collapse therapy. The authors state that the comcopasty made it occasine as accepted account of collapse therapy. The authors state that the comparison of indirectal series of cause is difficult benefits of cause is difficult benefits. CRIME CELTRID SECTORS SUCH SE ASLISTMENS IN THE TALES of cases, the operative technique, the after-care, or cases, the operative techniques, the attendance and the economic status of the patients may influ

Of the 3 70 patients whose cases are reviewed-including soo of the authors patients—over 33 per including soo of the authors cent were free from symptoms and bacilla and able t sork from one to twelve years after operation, a the cent above in trees to years after the to a per cent success improvement and were some to do some work, and 33 per cent died soon after the

operation or later from the tuberchloses or condithen having no relation to the previous duesse The operative mortality which recluded all deshis occurring within eight weeks after the operathen, ranged from 5 t so per cent and veraged

Namy of the surgeons whose cases are included in the series reported much lose or mor in the scores reviewed reported much lover more than the state of the recent cases are unprovement was one or more ripid observance of the indications, improvement in the operative technique, and more careful post-operative technique, and more careful post-operative supervision. The close causes of loss in operative supervision in the case causes of ooster were same, ment that is, manner mirrares, ment astimal finiter, and extension of the tuberreloss. obeletive enbetamon annual uniter and extension of the functional today. The results reported lackade those in cases is

the results reported the application of collapse therapy throwledge of the application of collapse therapy are more hunted than 1 is today. With increasing was saw numer man 1 is 100ay W to increasing thousedge, the adoption of suitable operative Enough of Surplements of Surplementary procedure, and the performance of Surplementary potentials and the performance of Surplementary procedure, and the performance of Surplementary procedure, and the surplementary procedures are supplementary to the surplementary procedures of the surplementary procedures are supplementary to the surplementary procedures and the surplementary procedures are supplementary to the surplementary procedures and the performance of surplementary procedures, and the performance of surplementary procedures are supplementary procedures. results are being obtained

Fischer A. M., and Abernathy T. J. Patrid Em-pyrems, with Special Reference to Ambiental Streprocesci. Arch Int. Mad. 934, 51 53

The authors define partid empy sma as a pieural effusion of varying consistency with fool odor cummon or varying community with tool coor of They review the hierarture on the hacteriology of anaerobes, particularly enaerobic streptococci, found anzerooes, particularly anserous are proceeding on perpend and petric infections, lung abscusses and emprenata . These organisms are considered and empyemata. A serie organisms are considered to be definitely pathogenic under certain conditions. he commonly partocognuc under certain coordinate.
Four cases of putrid employens are reported. In

rour cases of puriod employees are reported the an, anacross arreproceed acre the community organisms, but in three of them other anacrobes were also present. The a thors report also to were and personally abscess and one case of beauties of pulmonally abscess and one case of beauties because in which similar organisms were detected. orces in which aiming organisms were orcoss strated. In two cases Vincent's organisms were found Bactirological studies showed that the nounce Describings as stocked for the Lorentze Security of the Lorentze Security Sec associated organisms were variable, limit desired also that the anarroble streptococid did not arrated asso that the anarross streptococci on set all belong to the same group, two being of the an periors to the same group, two being of the virklans type, one harmodytic, and one son-harmody virtuans type, one hemotytic, and one soot-amount bytic. They usually grew with a foul odor Subvalue: a new anarobacily bet much more shorty cattures graw anacrouscally but much more asset; as was previously noted by Prevot who also invest-Extra Detachants source as a street as no area nature.

In the authors cases the empleme developed as polmonery suppuration. in the authors' cases the employees occusions as a complication of the introduced of disease. Teres of the pattents died.

# HEART AND PERICARDIUM

Back, C. S. Contradens of the Heart J As. M

The author discusses non penetratus trausant of the heart. He states that, lying against the states the near the prince that, tying against the server anteriory the heart is vulnerable t any stakes unicrostry one near is vamerane; any summarism the impact ever the aternors and, butterested a place the magnitudes of the thoracle vertebras posteriorly it is valued to the thoracle vertebras posteriorly it is valued to the thoracle vertebras posteriorly in the value bookers of the value of the vertebras posterior of the value bookers of the value of the vertebras posterior of the value of the vertebras posterior of the value of the vertebras posterior of the vertebras po normal to compression forces applied to the check, need to compression forces applied to the check. There can be little doubt that the heart is subjected. t many injuries. Most of them probably produce no functional disturbances and are not recognized no microscal instruments and are not recognized linked, even layaries that produce functional des

inners, even sayunes that provided in the great Angual pain is not encogamon in cardiac contunous, and the electrocardogram produced by majority of cases my occurrence may be similar to that of a

Hyper the peart receives a continuou i may repmyocardial raterct

Configurate or post-penetraling sounds of the ture, fail without rupture, or recover Commences in monopropertraints someon an antiecomposes amount of trains. The author caree chocanavas amount of treams 100 antest can also be a sense of treaty fire orporments in which the last a sense of treaty fire orporments in which the out a series or eventy mys experiments in sense us heart was exposed and the myocardism subjected

to contrarie injuries I tracity of the experiment to contractive injuries 1 twenty of the experiences the contractive were tolerated remarkably well Reck concluded that recovery is the rule rather than the concurred that I death occurs, it is caused by ventricular fibrillation, rupture, or myocardial fail-

ure following tachycardia

The mechanism by which non-penetrating wounds of the heart are produced are (1) a direct blow over the precordium producing a fracture of the sternum and ribs with penetration of the broken ends into the heart, (2) contusion or compression of the heart between the sternum anteriorly and the vertebra postenorly, (3) the application of indirect force such as sudden compression of the legs and abdomen, (4) laceration of the thoracic viscers such as may be sustained in a fall from a height, and (5) concussion of the heart. The literature reports also cases of vagus stimulation with stoppage of the heart.

The mechanism by which rupture of the heart takes place in non-penetrating forms of trauma includes (1) bursting, like that of a toy balloon in the hand, (2) breaking of the myocardium, which is of a finable nature, (3) contusion with subsequent softening, and (4) increased intracardiac pressure such as is produced by compression applied to the legs and abdomen of individuals in whom the resistance of the heart to dilating forces is decreased.

The author reports three cases of contusion of the heart. The first was that of a man who, when he was four years of age, was kicked in the chest by a colt. The sternum and ribs were caved in. When the patient was examined by the author at the age of sixty-eight years, cardiac decompensation was found. Roentgenograms showed the transverse diameter of the heart to be markedly increased and the distance between the sternum and the vertebrae to be greatly reduced. Electrocardiograms showed auricular fibrillation and myocardial damage.

The second case was that of a man who ran into an armored truck while riding a motorcycle. Immediately after the accident he became dyspnæic and unable to he on his back because of severe pain in the chest, and for more than a month he was subject to attacks of dyspnæa and pain. The diagnosis of cardiac contusion was based on the facts that the patient was in excellent health and had never noted cardiac symptoms prior to the accident, circulatory collapse occurred immediately after the severe injury to the chest, and symptoms of cardiac asthma developed subsequently. As cardiac asthma developes in a variety of cardiac lessons, the author believes it may be produced by a contusive injury

The third case was that of a man forty-nine years of age who was thrown forward against the steering wheel of an automobile and died five days later of myocardial failure. Autopsy showed two contusions the size of a dime in the posterior wall of the right ventricle and a laceration of the myocardium be tween these areas.

Charles Baron, M.D.

#### MISCELLANEOUS

Glaeser, H The Treatment of Infundibular Thorax (Die Behandlung der Trichterbrust) 1934 Muenster 1 W., Dissertation.

All of the important facts regarding infundibular thorax are reviewed in this article. The clinical importance of infundibular thorax depends upon the displacement and constriction of the heart According to the author, the cardiac symptoms are due, not to a constitutional cardiac weakness, but primarily to the deformity. Only circulatory disturbances give an indication for operation. Other disturbances are rare even in pronounced cases. For disturbance of the labile state of balance developing in the course of time between the funnel protruding into the chest cavity and the heart there must be an additional constricting factor.

Purely conservative treatment (respiratory exercises, traction at the base of the funnel with strips of adhesive plaster, or suction with Bier's apparatus) may be considered only for young persons with yielding bones. Surgical treatment includes thoracolysis, resection of the funnel, and plastic procedures. Thoracolysis has always failed, and resection of the funnel had to be discontinued because it was too hazardous.

t was too nazardous

Hartleib was the first to think of excising the entire funnel after its exposure and replacing it in the defect reversed, with the convexity outward In another case the defect left by resection of the funnel was filled with bone from the tibia

The surgical treatment was simplified and improved by Sauerbruch. In two sittings he divided the sites of insertion of the fourth to the eighth ribs, which then had the tendency to project outward spontaneously.

Nissen elevated the sternum by means of a wire introduced behind it

(HACKENBROCH) LOUIS NEUWELT, M D

Takino, M The Methods of Dissemination of Metastases in the Supraclavicular, Cervical, and Axiliary Lymph Nodes in Pulmonary Cancer, and Their Relation to the Lymph Vessels of the Lungs (Ueber die Verbreitungsmodi der Metastasen in den supraclavicularen bzw zervicalen und axiliaren Lymphdruesen bei Lungenkrebs und die Beziehung derselben zu den Lymphgefaessen der Lunge) Acta scholae med univ imp., Kioto, 1934, 17 211

The author made chinical and roentgenological examinations in sixteen cases of cancer of the lung and a histopathological examination in two of them He found that the localization of the metastases in the right or left supraclavicular, cervical, and axillary lymph nodes was closely related to the site of the tumor, and that the sequence of metastasis formation in these lymph nodes depended upon the growth of the tumor. Finally, he established a definite law for the development of metastases from pulmonary tumors in the different lymph nodes. He found six methods of dissemination and various combinations.

In the first and second methods of dissemination the tumor was in the right or left upper lobe and spread to the surface and apex of the lung. The metastases occurred, at least in the beginning, in the supraclavicular and cervical lymph nodes of the same side. Dullness was found in the chest relatively early. The author believes that early duliness in the right or left supractavicular and infraclavicular spaces, and hard, even though small enlarged nodes on the sam side of the neck are of

great clinical significance

In the third and fourth methods of dimentration the tumor was near the right or left hilles and the metastases occurred at first in the opposite supra ctayleniar and cervical nodes. In the party stage there was no duliness in the chest as the turner was dista I from the thoract wall. Although the other had only one case of pulmonary tumor in the right bilus, he believes, Judging from the anatomy of the telimonary lymphatics, that the third method f desemination is not necessarily race

I the fifth and sixth methods of descripation the tumor flected the right or left plears, causing pleurlay, and the metastases appeared guite often n one of the saillary lymph nodes of the same side, h turally in cases of primary picural tumors the metastases develop first in the arillary nodes of the

same side

Combinations of these six methods of discoules tion, such as the fourth with the sixth and the second

with the fourth, also occurred The methods of spread of palpable lymph node metastases in cases of tumor in the pper lobes of the lang can be explained eastormcally by the rulmonary lymphatic system and the pressure mecha-

First and second methods. The supraclavicular and cervical lymph nodes, respectively are connect ed natomically with the tracheobronchial perl bronchial and mediastinal socies on the same side Therefore the cancer cells of the primary focus in the right or left mover lobe reach the supraclavicular and cervical nodes in the normal flow of the humb stream, provided the latter is not disturbed by tree sure of the ternor on the (verphatic meets or profes

Third and fourth methods If the tumor originates in or near the right biltes and exerts pressure carly spon the right dermal tracts, the lymph flows ith the cancer cells from the right upper lobe through the anastomosis between the inferior trackenbronchial lypanh node and the right mover traches bronchial is mph node into the left supraclavicular and cervical nodes respectively. If the tumor originates i or near the left hillys, the conditions ero exactiv revenued

Fifth and sixth methods metastases develop is the axillary nodes in cases of pulmosary tumor only after favolvement of the oleura. Kormally there is no connection bet een the axillary nodes and the lymphatics of the visceral pleura but there is connection with the lymphatics of the parietal pleurs. The author believes metastasis by the fifth and airth method occurs through the development of lymphatics between the visceral and parietal

pleura (adhesive pleurisy)

A cases of middle and lower lube tumors ere observed. Uchida has reported a case of tumor of the lover lobe f the left hang in which a supra claylenter clandular a cill g appeared first (Method

As no accurate reports on metastases from tumors of the middle and lo er lobes are t be found in the literature, the anthor has been upable to determine their rootes I dimenunation definitely However he believes that they may be explained anatomically on the bads of the lymphatic system in the more a y as metastases of tumors of the upper lobe. LOS NEW MEN MEN

## SURGERY OF THE ABDOMEN

#### GASTRO-INTESTINAL TRACT

Aird, I Perforation of Carcinoma of the Stomach into the General Peritoneal Cavity Bril J Surg, 1935, 22 545

Aird states that there is no clear clinical picture upon which a pre operative diagnosis of perforated carcinoma of the stomach can be based. Pre operative diagnosis is rendered difficult also by the relative infrequency of this catastrophe in even the widest surgical practice. After reporting a case of his own Aird reviews seven observed in the Roy al Infirmary, Edinburgh, and seventy-one cases collected from the literature.

Aird's case was that of a sailor twenty-seven years old who, while out walking was seized with violent epigastric pain. After an hour the pain became generalized throughout the abdomen \text{\text{Voming of the was a past history of epigastric pains not consistently related to food taking which had been gradually becoming

more severe

At the time of the patient's admission to the hospital, six hours after the attack, the pain had eased and the vomiting had ceased. The temperature was subnormal The pulse was 120 but of good quality Tenderness and rigidity were intense and generalized but most marked in the epigastrium was no palpable tumor or distention and no duliness in the flanks. A diagnosis of perforated peptic ulcer was made. At operation in which the abdomen was opened by a right perimedian rectus displacing incision, the peritoneal cavity was found to contain gas and a serofibrinous exudate, and a perforation I in in diameter was discovered on the posterior wall of the stomach near the lesser curvature, 2 in rom the pylorus The edges of the opening were ragged, white, and crumbling The perforation had occurred through a saddle-shaped ulcer involving the lesser curvature and the greater girth of the stomach. In the lesser omentum there was a mass of hard glands The perforation was closed with great difficulty on account of the friability of the tissues Microscopic sections of the omental gland disclosed a highly cellular adenocarcinoma with no glandular arrangement whatever The immediate convalescence was uneventful, but on account of the metastases, a radical operation was not in-

Analysis of the seventy-one cases collected from the literature shows that an exact pre-operative diagnosis of perforated carcinoma is possible and likely only if the gastric tumor has been diagnosed previously. In two thirds of cases of perforated carcinoma of the stomach the condition runs a fulminant course with signs and symptoms closely re-

sembling those of perforated peptic ulcer. In onethird, the perforation is more or less silent, pain and abdominal rigidity being slight or absent. In both of these groups the perforating tumor is nearly always of the ulcerating variety and is often situated on the lesser curvature near the pylorus In about 50 per cent, metastases are already present when the perforation occurs Primary cancer of the stomach tends to perforate atypically, the symptoms being either mild or gradual or death resulting in a few hours from septic peritoritis. The immediate operative mortality approaches 60 per cent Immediate gastrectomy has been successful in only seven cases The safest and most effective treatment appears to be simple closure of the perforation supplemented by gastro-enterostomy and if removal is possible, later gastrectomy Pentonitis may occur in cases of cancer of the stomach without actual perforation of that organ JOHN W NUZUM, M D

Friedenwald, J., and Feldman, M. The Unstable or Irritable Duodenum Clinical Observations in 100 Cases. J. 1st. M. 4ss., 1934, 103, 2007

During the last few years clinicians have begun to recognize an unstable or irritable duodenum in addition to the ulcerated duodenum. The former may be responsible for a bizarre syndrome. There still is

much confusion in defining it

The cause may be unknown When there is no evidence of organic disease, a nervous reflex or allergy may be considered. In addition, there may be a mechanical etiological factor such as a congenital abnormality, adhesions, or compression of the duo denum. Especially important are the adhesive processes secondary to chronic cholecystitis, visceroptosis, or abdominal surgical procedures. Chemical causes are manifested by changes in the gastric secretion.

The symptoms may simulate those of duodenitis. duodenal ulcer, cholecystitis, appendicitis, or any other abdominal disease. On the other hand they may be quite atypical, the patient complaining only of an abnormal appetite, nausea, emesis, epigastric discomfort, and headache. Abdominal pain is usu ally absent As a rule the diagnosis is based on a history of vague subjective neurotic symptoms such as headache, dizziness, insomnia, and exhaustion in a high-strung, neurasthenic, irritable, patient. Spasticity elsewhere in the gastro-intestinal tract, manifested by cardiospasm, pylorospasm, gastric spasm, or spastic colitis is common Roentgen evidence affords a far more conclusive basis for diagnosis The entire duodenum or any part of it may show dysfunction plus irritability There may be (1) increased motility with frequent or infrequent emptying, (2) transient irregularities along the borders, (3) tran

sient spanic manifestation (4) tenderness and sendifureness over the dooderness, and (5) absence of a definite ulcer alling defect. Although motility is markedly accelerated, the desoderal cap does not always empty itself completely enough. This is characteristic of the tenderness.

always empty itself completely enough. This is characteristic of the typical case. Therapy should be directed at the restoration of normal doodsnal tone. This is accomplished best by

regulation of the diet, rest and improvement of the condition of the nervous system Support I Foresson, if D

Kanter J L. Regional (Terminal) Beltis In Rosentern Diagnosis. J Am M 412 434, 01 20 6.

This strikle is preferring sport based on alcrease alsegonal Bettis surgiculty explored. In fore of the cases the operation made is the Mount Start Inspiral New York, and in the two them they prescribed to the them. In the former the allmate diagnosis was non-specific ulerrative grams constous inflammation of the terminal forms. In the latter the operation was done prior to the introduction of the term regional Betti, but it faillarys were the same as those in the other cases as regards the presence of lease, thicknein and ulerration and the absence of their providi, tubercaloris, the property of the providing the providing the proting and the absence of the providing the protein and the absence of the providing the prolicious.

Pale and durrhors occurred in all of the cases, fewer in five maintuition in four and a mass in three. The patients were makes ranging in age from norteen to farty two years. Three of them were i

nateen to forty t

constant

Easter states that mention examination of the small intestile has not recorred sufficient attestion. He advises frequent careful observation of a progress seeal from the time the exemi began to fill suffitive time the Bruss should normally be empty.

In regional floats not only the ileum but also the colon may show a democratity. The medium as the circum is usually a speaker manifestion, but to some cases the discuss process may involve the colos by addiction or fixtual sormation. Under the latter cursumstances the deformity of the colon will be fixed.

The unportant charges in the slaun are a contain thing affect and furgentil distances of the filling affect and furgentil distances of the proportion of the state of the stat

The string sign appearance must be differentiated from the streek like filling of spartic segments of the small intestine. In the latter the defect is inconstant, whiler denser and smoother. The string sign is Regional ficitis must be differentiated also from a filled appendix and from tuberculous, surcous, and syphiles of the terminal flows

The author concludes that although the string sign is not necessarily pathognormous of regional flexits, this condition should always be home in mind when the string sign is found.

EAST & BASTE M.D.

Galli, R., and Bandandi, G. Au Experimental Study of Transplantation of the Bucards Symbolic in Amstomosis Between the Small

Subjective in Americance of the Received Spikinscrive in Americance is Between the Small Intestine and Coton (State spreaming as true loan defen shorter becomes note americans to bring misses mises in the seconds note and the state of the spiking the seconds of the spiking spiking and the spiking spik

Aside from the extensive Bencolic resection for mallement disease, in which it is impossible to use the fleocolic applianter there is a series of conditions (diverticultie, chronic stasts of the prestreal color, benien tumore) la which liercolle anastomosis is ad whathe and it is important to meserve the spinacter The authors review the inverination methods of Describe asstomoris, the purpose of which is to reconstruct a valvalar apparatus and thus prevent re-flux. The experimental technique recently devised by Il cles has undoubtedly given good results, judged fractionally roratgenologically and anatomically but may not be equally sucremful la man Whi regard to I procedures of this kind the doubt persists as to whether they would be efficient in every case and whether the valvalar function and he per meacui

The ideal procedure to the type of case, wherehe cossion would be to keep the end inco of the flease with its sphinger lotact and transplant it into the colon at the desired sate. The first experiments to solve the problem were undertaken by Cancil is to T As Caprel' technique is attractive because of its comparative amplicity Galls and Bendanti rereated and extended Caucel experiments. At the mme time they made a study of the auctiony and innertion of the spinneter and its superrance in dif ferent physiological states. They review the hiera ture on the function of the sphearter from the classical encention that the valve is passive to the new theory that it is an active aphincier, physiological entity with a regulating function. They state how ever that its morphology, function, and refer to ordination with the rest of the intentine are not yet completely actiful

completely actuee as their did an oblige tempoleteral transplantation of the flevolve sphitch red the according colon at random discourance from the according colon at random discourance from the according to premise of the rales as studied tempologically in different conditions of the stream's thought and effect could not be stream's thought and effect could not be stream's thought and the could not be made by hydrostate presents and result producing all the fine discourance to the country of the

The functional state of the majorter al 75 vs tied according to the filling of the stamach. When the atomach was secreting actively the Bescoke

sphincter could not be forced, while in the fasting state it could always be made to yield to the pressure of an enema. These contrasting results are the best proof that the transplanted sphincter is capable of maintaining its structure and function. Apparently these will continue indefinitely if the anatomical conditions on which they depend are preserved. While in some cases the remaining colon was increased in size and its walls were hypertrophied, the end of the ileum showed practically no change.

The authors conclude that the ileocolic sphincter is intimately connected reflexly with other parts of the gastro intestinal tract and its action is determined by a reflex of gastric origin. In the fasting condition the sphincter is incapible of opposing a colo ileal reflux, while during digestion it is perfectly closed. In making a roentgenological diagnosis of insufficiency of the sphincter it must be remembered that there may be a physiological retrograde filling of the ileum without a lesion of the sphincter Transplantation of the sphincter into the colon by Caucci's method is technically easy, and the transplanted sphincter will probably retain its function indefinitely.

The article is illustrated and is followed by a bib hography M E Morse, M D

Tassi, D The Value of a Negative Exploratory
Puncture in Suppurative Appendicitis (Valore
della puntura esplorativa ad esito negativo nelle
appendiciti suppurative) Policliu, Rome, 1934,
41 sez prat. 2005

The author reports in detail seven cases of acute suppurative appendicitis and periappendiceal ah seess in which a negative exploratory paracentesis was followed immediately hy reduction of the fever, the ædema in the right lower quadrant of the abdomen, the pain, and the leucocytosis and after a few hours hy rapid disappearance of the inflammatory abdominal tumor. At operation performed later, the previous presence of an inflammatory process of the appendix was proved

Tassi attributes the favorable effect of the exploratory puncture to a humoral modification—an "autohæmo-autosero-autovaccination" — following the small hæmorrhage produced by the passage of the needle through the photography and

the needle through the abdominal wall

A. Louis Rosi, M D

Costa, G Postoperative Appendiceal Fistulæ (Contributo allo studio delle fistole entero-cutanee post-operative appendicitiche) Clin chir, 1934, 10 1115

The author reports five cases of postoperative appendiceal fistula. The first case was one of tuberculous typhlo appendictis in which chronic tuberculosis was complicated by acute inflammation of the appendix, the second, one of suppurative appendicitis following a primary carcinoma of the appendix, the third, one of true appendictis in which operation was performed on the twenty-fifth day, in the period of suppuration, the fourth, one of ordi-

nary acute appendicitis with an infiltration not yet absorbed, in which operation was performed on the sixty-second day after the heginning of the disease, and the fifth, one of true acute appendicitis in which operation was performed on the third day of the attack. The stercoraceous fistulæ in these cases developed at various periods after operation

On the hasis of these cases and a review of the literature Costa discusses postoperative appendiceal fistule in general and divides them into two groups—those due to a pathological condition such as cancer or tuberculosis and those resulting from defects in the technique of operation. He states that the higher the perforation the greater the danger. The treatment of such fistule is surgical. The operation may consist of lateral enterorrhaphy, enterectomy, simple entero-anastomosis, or entero anastomosis followed by enterectomy. The choice of procedure must be determined by the requirements of the particular case.

Audrey Goss Morgan, M.D.

## Mitchell, G A G The Innervation of the Distal Colon Edinburgh M J, 1935, 42 11

Our knowledge of the autonomic nervous system is still very incomplete. Surgical intervention has far outstripped anatomical and physiological knowledge. As a result, operations based on false conceptions have done much to discredit legitimate surger of the autonomic nervous system. The practical advantage and importance of an exact knowledge of the anatomy of the autonomic nerves are obvious. This discussion of the innervation of the distal colon is based on dissections of fifteen stillhorn babies.

The distal colon is plentifully supplied with nerves arising from several sources and pursuing different pathways. Lying between the origins of the mesentenc arteries, on the anterior and anterolateral aspect of the aorta, are delicate bundles of nerve fibers, from four to twelve in number, which are disposed in the shape of a closed fan with the narrower end upward or in the form of two or three discrete bundles. These are called the intermesentenc nerves

Above, the intermesenteric nerves are continuous with the coeliac plexus and communicate with the aorticorenal ganglia Below, some of their fibers form a plexus around the origin of the inferior mesenteric artery and others pass directly downward into the superior hypogastric plexus Between, they are united by several fine branches, but a true plexus is formed only in a few instances where the fibers interlace at the lower ends Opposite the hilum of each kidney these nerves give off from two to six slender branches which pass to the aorticorenal gangha or directly to the renal plexuses In most cases an additional one or two delicate branches pass upward and outward from the outer and lower parts of the intermesenteric nerve group to take part in the formation of the renal plexuses At their lower ends these nerves communicate with the inferior mesenteric plexus and appear to be more constant on the right side.

The intermesenteric nerves are foliaed laterally on both sides by three or four raud from the wrener half of the lumber sympathetic chain. The mover ramus (or rami) joins the intermesenteric nerves directly The lower two not uncommonly fase before they join the termination of the intermesenteric nerves or the beginning of the superior hypogastric pierus. These rami are called the lumbar splanchole nerves The plexus which surrounds the interior mesenteric artery is formed by branches from the intermesenteric and tumbar splanchnic nerves. It is sener ally serred that the main sympathetic supply of the distal rolon mases through the laferice mesenteric plexus and its branches. By some it is mainteless that narasy emathetic fibers also reach the colon by this route. The sympathetic fibers pass through the fumber splanchnic nerves and by way of the intermesenteric perves from the cyclise pierus

The laterior hypogratric or pelvic pierases re almated on each side of the rectum or bladder They re composed of an intrical meshwork of perve there embedded in time connective tissue

In summarizing the author states that the distal colon receives its nerve supply from t sources (1) the inferior mesenteric plexus, and ( ) the hypotrastele perves and alexanes. The former surely is main! and nowible entirely sympathetic in nature I the latter there may be both som nathetic od namsymmathetic fibera, but ram sympathetic elements predominate

GUAR FREE Hunt, F. Cancer of the Lower Orlon (Stanoid)

The treatment of cancer of the securid adjection has become more promising with improvement to the diagnoses and in the safety and efficiency of the operath technique According t Jones cent of all caremonat occur in the intestigal tract, to per cent of intestinal careamenta occur in the rectum, and ou per cent of rectal executomata ma be correctly disappred

and Rectors New F dead J Med one

Hunt tates that a new point of view must be developed in the mind of both laymen and physito the relate safet of surgery ad the ciam carabilit of cancer of the sigmoid indirect in It is lamentable that a large proportion of persons with cancer of the sigmoid ad rect in re first seen by the surgeon too lat for operation. In the pubbe estatutions of America from three fourths t for hithe of patient with cancer of the rect in re morerable i the time of thei admission and the remainder is on the borderline of operabelity 1 per t cases however the merdence of operabil

ity ranges from 1 t 60 per cent
In cases n which radical operation is possible and is performed by experienced surgeons the mor tality ha been reduced remarkably. Coffey report ed a series of fort seven cases in which there ere only two deaths mi the Laber Clime series of fort 6 cases ith ro deaths Moreover the inclidence of five- ear cures seems t be higher in eases treated by radical operation than in those treated by leaser procedures.

Il the incidence morbidity and mortality of cancer of the colon are to be generally lowered in keeping with the demonstrated possibilities, the Improvement must be brought about by education. The laity and physicians must be taught to recognize the importance of initial remotoms ruch as charge in bowel habit pain, and bleeding practitioners must be induced to apply faithfully all the date nostic measures at their command, including abdomiasi paination and digital proctoscopic. chemical, microscopic, and rocuternological error factions and surgrous most master the difficult and often tedious technique of preparation corra tion, and after-care

Among the difficulties confronting the surgrou who wishes t perform a suitable radical operation is the almost aniversal horror of an abdominal same on the part of physicians as well as larmen. The attitude does not seem justified by the experience of persons with properly made colostomy that is reasonably well cared for M by Deep base been excrisiond and much misery has been endured

because of the refusal to sabmit to colostown

It is guit generally held that in lesions of the left

culon a one state resection. It immediate closure is reaf because of the torage function, the abundant growth of battern and the tradeacy toward obstruction in this part of the colum. Therefore in the majority of cases of sich lesions the sther performs perhananty perceitent of a permanent colestom). The use of the Mikuber procedure lessons the danger of short and a olds that of intrapentoneal leakage but may introduce dangers of its own besides greatly extending the period of hosestalization. After the performance of executions for its details by action, the surgeon may still perform the Mikuhez operation if be doubts his builty to carry out a resettion in ton timulty with salety. The importance of spinal

amerabens and blood transfusion is discussed The thor report eighteen cases is while a radical operation wa performed according to the perpetries outlined in the period from 1013 is 1855 The operate e mostality was 17 per cent fine (15 per cent) of the patient died of recurrence floe could not be traced but is known t he been live from recurrence year after the operation fully per cent of the patient - re 100 live and free from COCCUSION CO. **u** . Martin M.D.

#### LIVER, GALL BLADDER, PARCETAS, AND SPLEEN

Lenorment G., Bertrand, I. and Patel, J. Con-address on Rolliny Federical and Report of the Liver. Case Report (Loss Utables, or Padinary options placing by Joseph Ser-observation persons). Press will Ta. 944

Solitary encumerated admonsts occurring in the Byer in the buence of hepatiti are relatively rare They are usually found at operation or autopsy Of the cases reported, the tumor was diagnosed chin-

cally in only two

The case reported by the author was that of a woman twenty-two years of age who complained of intermittent abdominal pain and a sense of heaviness in the epigastrium which had begun two years previously and had been followed by the appearance of an abdominal tumor

Physical examination revealed a painless, smooth, rounded mass, the size of the head of a newborn infant, which extended below the umbilicus and seemed to be attached to the liver On roentgenographic examination the attachment to the liver appeared to be confirmed and the diagnosis rested between adenoma and hydatid cyst The reactions of Weinberg and Casoni being negative, the final

diagnosis was adenoma of the liver

Operation disclosed a nearly black tumor, the size of the head of a newborn infant, which was attached to the anterior border of the right lobe of the liver by a pedicle from o to 10 cm in diameter. On the surface of the neoplasm, which was relatively smooth, were numerous tortuous dilated veins The liver was free from other nodules The tumor was resected by a wedge-shaped incision and the defect closed by U sutures and covered with omentum Uneventful recovery resulted.

Microscopic examination of the tumor revealed in some areas a cord-like arrangement of epithelial cells closely resembling normal hver Between the cords were endothelium-lined sinusoids. In other areas the epithelial cells formed acini containing a minute amount of fluid. At no point were there The stroma consisted of rather dense thick bands dividing the tumor into lobules

In discussing the treatment the authors emphasize the difficulty of obtaining hæmostasis

ALBERT F DE GROAT, M D

Baroni, B Studies and Researches on Intramural and Interstitial Calculi of the Gall Bladder (Studi e ricerche sulla calcolosi "intramurale" e sulla calcolosi "interstiziale" della cistifellea) Arch stal di chir, 1934, 38 273

The author presents a fairly complete review of the literature on intramural and interstitual calculi of the gall bladder Such calcult are relatively uncommon Early investigators were of the opinion that intramural calculi were ordinary small gallbladder calculi which had become included in the wall of the gall bladder through lessons in the mucosa Others believed that they were formed within the wall of the gall bladder and regarded the so called glands in the gall-bladder wall described by Luschka as of importance in their formation

Baroni reports three cases of intramural calculi of the gall bladder The history in these cases was the same as that in most cases of gall bladder disease In two cases roentgen studies showed no filling, and in one case, only faint evidence of filling

In the first case the intramural calculi were not diagnosed at operation, but on the basis of the study of this case the pathological anatomy was recognized readily at operation in the second and third cases Macroscopic study of the specimens showed an increase in the size of the gall bladder in two cases and a decrease in one case. The wall of the gall bladder cut with some difficulty Small hard masses could be seen and felt within it was pink and presented nodular yellow areas, in the centers of which the calculi were visible calculi were located irregularly in the peritoneal as well as the aperitoneal portions of the gall bladder and were at various depths from the surface Most of them were in the subserosa and muscularis, but some were in the submucosa. In a few instances the surface of a calculus was exposed in the lumen of the gall bladder The calculi varied in number in the three cases They were usually friable and often of a deep chestnut color with at times streaks of dirty yellow They varied in size from that of a pinhead to about 1 cm in diameter Grossly, the mucosa was hypertrophic and presented round, scar-like areas up to 5 mm in diameter with indefinite margins, which were often a dark green but sometimes yellow in the center, elevated above the level of the mucosa, and either bare of mucosa or covered by a tense smooth mucosa These elevated areas corresponded to the areas containing the calculi

Histological study yielded findings which tended to be different in the three specimens and were not easily correlated. In the first specimen there was a thickened mucosa much like that of strawberry gall bladder with hypertrophy of the tunica muscularis and hyperplasia of the connective tissue in the submucosa and subserosa Tubular invaginations of the mucosa (which may be called Luschka canals) were present. These sometimes extended to the subserosa and often contained calculi of various dimensions Immediately surrounding the calculi the mucous membrane was much like that in the gall bladder Perivascular infiltration was noted especially in the areas surrounding the canals There was some histocytic and fibroblastic proliferation, and some lipoid degeneration of the cells. In certain areas the stones were invested by connective tissue without intervening epithelium

In the second case the findings were similar except that many of the spaces were not related to the Luschka canals but were rather isolated new The tissues surrounding these cavities were composed chiefly of epithelioid cells and were involved by some phase of a degenerative process or by lipoid infiltration, containing granules of bilirubin, calcium, cholesterin and its esters, and a yellow pigment These substances fused to form small calculi which in turn sometimes fused

In the third case the mucosa was hypertrophic but without vilh and was poor in Luschka canals The submucosa was the site of foci of cellular infiltration and connective tissue hyperplasia There was

some trophy of the smooth muscle. The spaces noted were much the same as those in the second

case, not Lauchka canala

On the basis of these findings the author ttempts to explain the formation of such calcul. He believes that in the beginning there are present in the submucoes and subserous connective theme cells with morphological characteristics between those of the fibroblast and enithelioid cell but more rounded. presenting a poorly tained nucleus and a granular cytoplasm, and containing some doubly refractile bodies. These cells soon disintegrate and become infiltrated with fat In this stage small granules of bilimbin and cholesterin esters appear together Soon the cell drappears entirely leaving only the détritus f cholesterin, fata, bibrobin, and calcium. Enitheliosd cells surround this material much as they would surround a foreign body and form foreign body giant cells. These cells eventually become involved in the degenerative process and their détritus forms a covering for the original pidms. The process is then repeated varying num-ber of times. This precipitation seems to occur periodically as similar phases of it are often noted in different parts of the same specimen. Such a process may take place anywhere within the wall of the gall bladder quite independently of an epithelial coating and a thout communicating with the homen of the gull bladder

The indications are that these intransmit clean have a dual edigin—one within the Landh; and and the other truly intensitial following the process described or some similar process. The causes of chieff formed in the canals are probably similar to those of gail stores in general, whereas the calculformed; intensitially are related promarily to degeneration and calcifuction without infammation, expected to the calculation of the change in some percentage and calcifuction the change in some beart will blacker.

A fairly complet review of the Rierature and a complete bibliography ar prescuted.

A Louis Rose, M.D.

Webb-Johnson, A. E., and Muir E. G : Cysts in the Ragion of the Pancress: With Youse of Case, See J. Surg. 444, 24

Cystic tumors in the region of the pracess are among the least combon of all abdonusal cysts. A woman fifty-tero years of gr was operated upon cyst. It in diameter which lay behind the pancreas and was attached to the spicers by recover channels. The wall of the cyst was formed manly of fibrons thems, but considered odd and the most fibration of the most could not be considered. The attract of the master odd on the country of the country

## GYNECOLOGY

### UTERUS

Lukacs, M The Action of Thymophysin—Extract of Thymus and Hypophysis—on the Contractions of the Uterus Its Use in Obstetrical Therapeutics (L'azione dell'estratto biglandolare associato del timo e ipofisi "thymophysin" sulle contrazioni uterine Suo uso nella pratica terapeutica ostetrica) Riv stal di ginec, 1934, 17 305

The author states that thymophysin, a combination of extract of the thymus and extract of the posterior lobe of the hypophysis, was first reported as a new remedy by Temesváry at the Gynecological Congress held in Vienna in 1925. Temesváry's report was a sequel to the reports of other investigators who demonstrated indications and contraindications for the use of pituitrin and discovered that extract of the thymus is capable of increasing the contractions and the muscular tone of the uterus

To prepare thymophysin, Lukacs used commercial thymus extract as well as his own extract. In a series of experiments he found that when extract of the thymus gland was used with an extract of the posterior lobe of the hypophysis it prolonged the

effect of the hypophyseal extract

In obstetrical practice Lukacs has used thymophysin to increase the pains in primary and secondary inertia, in the period of dilatation from 2 cm to complete dilatation, in the period of expulsion, in the cases of elderly primiparæ and multiparæ with an intact or ruptured bag of waters, in premature and early rupture of the membranes, in marginal and lateral placenta prævia, and in normal labors in which there were fetal indications for its use. He has had no opportunity to confirm the results obtained with it by others in polyhydramnios, twin births, rigidity of the portio, hypoplastic uterus, or deformity of the pelvis of the first grade.

He regards the use of thymophysin as contraindicated hy marked deformity of the pelvis, hydrocephalus, fetal macrosomia, shoulder presentation, spastic and tetanic contractions, threatened rupture of the uterus, grave nephritis, especially that associated with hypertension, headache, and visual disturbances, decompensated cardiopathy, diffuse

arteriosclerosis, and myocarditis

The thymophysin is injected intramuscularly (into the gluteus muscle), not by vein. The syringe must be free from alcohol as alcohol diminishes the

action of the thymophysin

To induce premature labor or hasten protracted labor the thymophysin was given sometimes in doses of 0.2 c.cm repeated at intervals of twenty-five or thirty minutes after the previous administration of castor oil or an enema and sometimes in doses of 0.5 c cm. It was found that the uterus

reacted sooner and more positively to doses of o 5 c cm

In primary or secondary inertia in the period of dilatation, i i c cm was generally given and repeated, if necessary, after an hour. The uterus began to contract after from three to ten minutes. The contractions lasted for from thirty-five to forty-five seconds and always showed a physiological rhythm, being repeated every two or three minutes. They continued to occur to the end of labor

The value of the extract is apparent especially in cases of premature and early rupture of the membranes in which there is great danger of infection of the mother and danger of asphyria and death of

the child necessitates rapid delivery

After reporting eight illustrative cases the author draws the following conclusions

r The action of thymophysin on the uterine musculature is rapid and certain, provoking intense contractions which are always within physiological limits and continue for many hours

2 Thymophysin is specific for uterine inertia in

the period of dilatation

3 A single dose should not exceed r c.cm If necessary this dose may be repeated after an hour

4 The injection should be intramuscular (glu

teus, thigh)

5 Thymophysin should not be given during

utenne fatigue

6 The sooner its administration after sensitization of the uterus the surer its effect. It acts only on a uterus already sensitized, that is, after the pains of labor have already begun, or on a uterus that has been sensitized by small successive doses of thymophysin

7 Labors influenced by thymophysin are characterized in general by a rapid course not only during the second stage but also during expulsion of the

placenta, and by a normal loss of blood

8 Thymophysin never causes tetaniform con tractions, and has no direct action on the blood pressure

9 It may prove of great aid in operative interventions, especially the use of forceps

CLARA RAVEN

Ahltorp, G On Spontaneous Rupture of the Myoma Capsule Acta obst et gynec Scand, 1934, 14 368

The author reviews the seven cases of spontaneous rupture of a myoma capsule which he was able to find in the literature and reports a case of his own. The latter was the case of a woman forty-three years old who had a solitary myoma the size of a man's head A sudden, moderately painful enlargement of the abdomen occurred At operation two weeks

later a part of the repease as large as two fact was found extruded through repture in the capsule and adherent to the transverse mesorisch.

The cases reported! the brenture show that repture of the capsule of a myosen say result from disturbances in the metrificing of the symmet accompanied by rapid growth of the tassor pressure accross in the capsule and reduction of the elasticity of the capsule and reduction of the elasticity of the capsule and these with maintenance of the contractile power of the uterus.

Hinselmann, H.; Ten Years of Colposcopic Disanosis of Cartinoma (Zohn Jakra Cartinos-Dorg now act den Kalposkop) Ali R chuscht 934, pt

The colooscope was constructed and introduced into the technique of expecularical diagnosis sea years are While it was originally intended for the detection of carcinoma of the portso not detectable ith the naked eye, I has proved of value sho in the study of advanced carcinoma of the portio. Even a hea the diagnosis of advanced carelpoons has been satisfactorily established, the colposcope permits a considerably more exact and sure determination of the limits of the twisor their is possible. It's the It above which parts re already in volved in the executors growth and which are still free. This determination is of steat value cape. cially in the choice of the ate for blower In this manner the colposcone prevents an ancestale or possibly acustive diagnous due to removal of the blopsy specimen from the roug pis a It show lso dependably ad exactly the extension of the carcinomatous process on the earlace, thus prevent by the surrow from making the line of extraor in the careacontatous area testend of in bealthy timue I the early diagnosis of carcinoms the colposcope has fulfilled automations in a different manner than

was expected at the time it as constructed. The rittide chapter of carenons are not, as one might assume, the advanced chapter on a small seale. In general, indepent carenones as not them fasted as a small future or their little construction in this form is comptioned. Of or indepent carenomials diagnosed with the endposcope in the centre of ten view, nowly only only on the form of small cit.

cumsembed ulcers or nodules In order to understand the true form of incipient raremoma it as necessary to go back and start constructly. For the changes representing the manual stages of taresnoma of the portio t was found advisable make up a new nomenclature and classification (though some of the cases the fractings corresponded t the microscopic changes that had heretolors been considered the signs of incipsest caresnorms. For practical reasons use of the terms. procancerous should be voided Moreover in wider hants new microscopic conceptions, t is not 1 better not tome the term beginning carcinoms Perhaps in the future it will be found necessary to enlarge the classification now proposed. For astance to designate as 40 or the type now known as

ac Carpurphasis of atypical keratonizing epithelium involving the attions giandal when the apprehension epithelium is limited to the executory ducts of these giands, and as a p p when the landes of the ghosts has become involved, designaturg as Type 5 that in which the hyperphasils atypical epithelium is entirely superficiel.

For the correct performance of cohoscopy to reconfressents must be met. Trut, a complete culposcopic examination must be made of every nations When this is presented the practitioner deprives himwill of the advantages of colposcopy. It cannot be said that a chulc performs colposcopy if it does not insist that this basic rais be followed. Any deviation from this rate means that the incident staces of carcinoms of the portio are not always discovered. The second recolvement is that there be subsequent control by means of microscopic examination, particularly when the cardinoms has not yet alcerated. If the colposcopic findings are not followed by histological studies correct understanding of the pathological changes on the surface of the portio is general and in the early states of carelnoma is purreculer to composition

(SCHILLER) JOHN W BRENNIN, M.D.

Rinform, E., and Navratil, E., Bertonne of the Uterus and Vagina (Urber Sarkons des Uterus and der Vagina) Zeneralli f Grassi 1921,p 2170

The athors made statistical and of the sercome material of the First Graceolomesi Clinic of the University of Lienza covering the period from got to any Of the I 338 came of micesa operated upon during this period, strongs was found to 44 (a 8 per cent). This incidence of surcoma is it agree ment with that given in other reports from I leave Of the 1 755 moss of sterms carranomata observed during the using period, the turnor as in the corpus at anger edt at bes see, or arrey out 1 66 as or whereas of the 44 cases of spreams the tersor wa is the corpus in 36 in the cervix in 6, and in the varing in For every a 6 carcinometa of the corpes there was surcous of the corpus for every \$45.6 currenousts of the cervis, a corried surrous and, in general, for every 40 uteriae carcinomata, t

Terrine sarround Sarcomats of the corpus oten are divided but sarcomats of the all and saroyeests of the streom membrane Of 30 sercontets of the wall of the miteres, 5 are excrements arming in myomats an indication of the tendency of toyonata t undergo surconatous degeneration. The symptoms of str comate in misms are mentraganhable from the symptoms of myours. The failure of corniges castration for treatment I by ama may be as important finding. The ages of the patients in this group ranged from twenty-six to fifty five years. a herena diffuse sarcounts of the wall and of the aracous membrane were found only is once over forty-five years. A familial tendency toward ma beneat tumor formation could be determined in only lastance In course, streets, or found in purely submucous myomata Once tuberculosis was found combined with sarcoma The mortality in this group was 16 per cent Twenty one of the patients are still hving Thirteen have survived for five years All were treated surgically

On histological examination the most common findings were spindle celled sarcoma (7 cases) and

my ocellular sarcoma (5 cases)

Even in cases of diffuse sarcoma of the wall of the uterus and sarcoma of the mucous membrane there was nothing characteristic in the history. The prognosis in this group was definitely less favorable, only 2 of the 7 patients surviving for one year. Some of the patients were treated by operation and some by irradiation.

The symptoms of sarcoma of the cervix were similar to those of carcinoma of the cervix. In one case the former condition was thought to be a cervical carcinoma and was treated by radical vaginal operation. Of the 5 cases, 2 were operated upon and 3 were treated by irradiation. The 2 patients who were subjected to operation remained cured for four and eight years, respectively, and 2 of the 3 who were treated by irradiation survived for more than five years after the treatment

Both of the vaginal sarcomata were soon fatal In all cases in which autopsy was performed wide

spread metastases were found

Most cases of diffuse sarcoma of the uterine wall and uterine mucous membrane come for treatment at a relatively advanced stage. Consequently, the prognosis is more unfavorable. In the cases reviewed no permanent cures were obtained

Of the cases of sarcoma of the cervix, a permanent cure was obtained in 3. One of the patients treated for this condition was still alive after more than three years. (FROMMOLT) JACOB E KLEIN, M D.

#### ADNEXAL AND PERIUTERINE CONDITIONS

Wallart, J The Rete and the Segmentary Arrangement of the Ovary (Le rete et la disposition segmentaire de lovaire) Gynte et obst, 1934, 30 517

The rete ovari, an epithelial formation sometimes found in the hilus of the ovary, has received little attention from investigators within recent times. The author, who has made extensive investigations of this structure in human beings as well as in animals, is of the opinion that it may have some

physiological significance

To demonstrate the rete, which varies consider ably in appearance at different stages of sexual maturity and under pathological conditions, serial sections of ovaries are necessary. The rete is found within the longitudinal axis of the hilus. It consists of groups of epithelial tubes and strands. In the fetus and the newborn infant and during the first years of life these epithelial ramifications usually do not possess any distinct lumen, although exceptionally they present minute spherical or oblong cysts. At the time of puberty the epithelial cells

change in appearance and the tubes show distinct lumina although their general arrangement and axial direction remain unchanged. The epithelial cells, which are sometimes cuboidal and sometimes cylindrical, have larger rounded or oval nuclei containing grains or filaments of chromatin and one or two nucleol: The cytoplasm is granular, foamy, During pregnancy and in certain pathological states (uterine fibroids) the rete in creases greatly in size, its tubules being filled with secretion which distends their larger lumina. The secretion stains with mucicarmine Occasionally the epithelium, which secretes mucus, shows papil lary proliferations which occasionally invade the tubal lumina, producing a pseudo glomerular appearance. The blood supply is very rich, especially when the proliferation is most active

Of especial interest in the rete is its innervation. The nerve supply of the ovary is arranged in three large horizontal plevuses or layers extending to the level of the cortex and sending out ascending vertical branches. The first large plevus leaving the hilus provides the nerve bundles which surround each tubule of the rete and form a secondary submucous plexus. These are divided by further extensions to the epithelium of the tubules to form a sub

epithelial plexus

The rete communicates with the epoophoron at the cranial pole of the ovary. The author believes that it is derived from the wolfnan body. It is the homologue of the rete testis in the male. Because of its rich nerve supply, Wallart believes it represents something more than a mere embryonic rest.

The wolffian body, which plays an important directive rôle in the organization of the gonad, is a segmented organ, various parts of which are responsible for different ovarian structures. The author's researches demonstrate a definite segmental arrangement of the ovary which is determined by the rete groupings as well as by the corresponding nerves Histological examinations frequently show this segmentation when certain portions of sections are seen to be perfectly normal whereas adjacent areas present well defined sclerosis demarcated by the anatomical segments This indicates that there is also a functional relationship between the rete and the nerves The rete apparently exercises a trophic rôle in the economy of the ovary and probably also in that of the uterus. The author advances the hypothesis that the rete is one of the receptors or transformers of the "commands of the hypophysis upon the gental apparatus"

Wallart does not agree with those who claim that the rete and the wolffian body have no functions except those of excretory organs during embryonic life. On the basis of the recently acquired knowledge that other organs which lose their excretory ducts during embryonic life play important roles in the post-embryonic period—the hypophysis, for example—he believes that the rete will eventually

be proved a structure of great importance

Maura, M. A Contribution to the Study of Ecopia and Inglubed Harris of the Oray. Two Came of Conjential Ectypia of the Oray; and Tabe to Conjential Ectypia of the Oray; and Tabe della ectypia a dell'erna Inguisale dell'orano. A proposico de dan cas di actopa congrunta dell'evaludicia trencha nel grande lettero. Arch 4 Asiar (2014) 2144 2 3 1

The a ther emphasizes that although berris and ectops of the owary are often contend, there are distinct differences between them. The predisposite causes of overains herein are persistence of Nacklands in the presence of an ingelast see, musual size of the losses or cansis of the sideomisal walls, conjectifully long ingaments, adhesen of the owary to hermitated mesentery or intertainal loops, and repeated increases of intra-shdomfard pressure. Deformity or desires of the reproductive organs may or may not be present. About up the certain of overain hermits are ingridual, and congretiful familiar to the overay in are ingridual, and congretion familiar to the overay in a found in the hallow of the condition is hermit and mustile condition in the site of the condition is hermit and mustile condition in the site of the condition in the site of the condition is hermit and mustile condition in the site of the condition in the site of the condition is hermit and mustile condition in the site of the condition in t

Ectoria of the overy a caused by a fetal anomaly of the genital tract, a developmental abnormality of the muellerisa ducts, or generally delective development of the internal gentialia. The descent of the overy is stopped normally by firstion of the sentoinguinel (round) figument in the utenne born Hos over If the beament extends to the base of the labour mates and if Nack canal persists, the senitoinsulnal beament may exert traction on the overs and pull t into the labitum. The beament then atrophies and the overy remains in the depths of Nuck directiculum, the upper part of which be-comes partially or wholly childrented I short, the normal obstacle to descent being absent because of defective genital development, the overy passes through the inguisal canal by the same mechanism as the testicle Physiologically laterpreted, ovarian ectools is due to lack of the normal stimulus (nosaltiy hormome) to the completely femilian genital development

It is impossible to may how many case I two critops of the overy into the blazan have been receiving a divergency of the comparison of the netrone accompaned by gential bonalise should be considered as inguinal extens of the overy. These are not extressedy rate. The important enterial are though thus is not mentioned in the intervity and permission of brick a consist Theory on the conparison of the consist Theory on the conparison of the true and the consistency of the match terms placed that the consistency of the match terms placed that and unicornate and biconsists items.

In connection a the review of the literature Maare discusses the pathology differential diagnosis, complications, and treatment

Both of the patients whose cases are reported by the author were forty two years old. One of them had had six, and the other two, normal pregnancies. The first patient had had a painful, irreducible see alling in the left tablum for eight year. She was saidful to the kouplial fea at cote attack associated to the kouplial fea at cote attack associated to the strength of the said period and the pain the strength of the said to be said the pain three tays performed, the dark period and the said to be said to be

The second patient was considered? I have hed an inguinal hernia since civilihood and was admitted to the hospital during an cuto attack similar to that of the first patient. The sac contained orientum is admitted to the adhera, and a structure suggesting the fundaments was from the met to the peritoses.

The article is illustrated and is followed by bibliography

If E. Moste, M.D.

Bergmund, H.: The Resistance of the Overy to Goradotropic Hormones (Resistant des Oversens green grandotrops Hormone). Zeatrellé f Gyard. 03.0 P. 44 3.

The author investigated the resistance of the proerative glands t the gonsdotropic hormones by staches of women and experiments on animals. The resistance is shown by graded sometiveness of the follide t gonadotropic hormones and by the action I the sexual hormones formed in the mature forheles and the corpora bring upon the endocrine systers. Therefore it is not necessary to draw upon the new formation of folluties in the sexually maters overy in unimals to explain the resistance against gonadotropic bormones. The potency of the gonadetropic hormones depends upon the state of maturity of the folicies. Primordial folicies of infantie ovanes do not react t goundotropic hormones Follicles of paverage overne which already show tendency to force followlar fluid react to these hor mones, and the more mature they are the more rapid and more physiological is their reaction. The permary follicles in the ovaries of mature amount are also invulnerable t the influence of gonedotropic bormones uder physiological as well as pathological conditions. Of the follows which come under the same hormonal influences simultaneously in the menstructung organism, the most mature react the most quickly and most strongly to the hierated impulses of the hypophysis, and through their hor monel action upon the endocrine system (especially the hypophysis) prevent, for the duration of their function, the maturation of the next groups of follides.

This protective mechanism of the follicles show not only that the primordul follicle is meanative to guardotropic hormones, but also that hormonal stenlisation cannot be achieved by exhaustion of that of the vagina) The lateral parametrial tissues — and the round and infundibulopelvic ligaments are divided. The peritoneum is closed by a suture including the adnexal stumps. The perineal wound is then sutured and the wound cavity tamponed. After the operation from 2 to 3 roentgen treatments are given (FRIEDL) Louis Neuwell, M.D.

#### MISCELLANEOUS

-Bishop, P. M. F., Cook, F., and Hampson, A. C. Indications for the Clinical Use of Progestin - Lancet, 1935, 228 139

The rôle of progestin in normal menstruation is o produce the progestational phase of the endonetrium and inhibit the spontaneous activity and esponsiveness of the uterine muscle to oxytocin from the posterior lobe of the pituitary) This rôle persists during the first three months of pregnancy

When progestin is prematurely withdrawn during he menstrual cycle the uterine muscle undergoes rolent and painful contractions giving rise to dysnenorrhoa. The result of the withdrawal of proestin during early pregnancy is habitual abortion lue to the return of the uterine contractions and withdrawal of the stimulus to decidua proliferation Therefore, in both of these chinical conditions proestin is indicated

In cases of menorrhagia and metrorrhagia in vhich no pathological condition is found in the elvis and the abnormal bleeding is considered due o madequate stimulation of the ovary by the pitutary gland, progestin is of value when administered with pituitary preparation. When the deficiency of ntuitary secretion is so great that the ovary fails o secrete sufficient cestrin or progestin to stimulate he uterus, an infantile state of the pelvic structures esults Chincally, the menses are scanty and inrequent and associated with dysmenorrhoea, or omplete amenorrhœa occurs Functional sterility nay also be present Large doses of cestran are ometimes successful in developing the uterus to the dult size, and if they are followed by progestin. ienstruation may ensue

On the basis of these facts the authors suggest

he following dosage

Habitual abortion One rabbit unit of progestin iven daily for two months, the treatment being egun a month before the usual time of abortion. Threatened abortion One rabbit unit of progestin dministered daily until the signs of threatened bortion, that is, bleeding and pain, have disap-

eared. Rest in bed is essential during this treat-

Functional men a of the anterior be of the pitui d'injection.

Co rat units thr a pences of the cated in the cated of a mo thase and durin injection of the anterior of the cated of the ca

Dysmenorrhoea One rabbit unit of progestin given as soon as the pain begins or a day or two previously, if possible, and continued until the period ceases

Uterine hypoplasia The injection of 250,000 international units of estrin (in the form of di-hydrocestrin benzoate) on the first, fourth, eighth, eleventh, and fifteenth days of the course, a total of 2,500,000 units being given. On the nineteenth, twentieth, twenty-first, twenty second and twenty-third days the administration of r rabbit unit of progestin. Menstrual bleeding may occur on any day up to ten days after the last injection of progestin. This course, as originally outlined by Kaufman, should be repeated. The success of the treatment is determined by measuring the increase in length of the uterus. The treatment does not appear to be effective in severe and long-standing secondary amenorrhoza or in most cases of primary amenorrhoza.

The authors admit the difficulty of evaluating the effect of progestin in threatened and habitual abortion

A F LASH, M D

Barringer, E D The Treatment of Gonorrhoa in the Female J Am M Ass, 1934, 103 1825

This article is based on the cases of thirty women with genital gonorrhoa who were treated with gradually increasing doses of vaccine, five who were treated with small doses of vaccine, and thirty who were given only routine treatment. The vaccine was prepared by the New York City Bureau of Laboratories from seven of the Torrey strains

The results, while not entirely conclusive, were sufficiently good to warrant further investigation. The vaccine treatment seemed a valuable adjunct in the acute and subacute cases and also in the chronic cases without a "mixed" infection. As the larger doses caused a considerable local and general reaction, the author questions the advisability of their use. The general impression was that vaccine therapy in conjunction with routine treatment may shorten the period of hospitalization.

HENRY S ACKEN, JR., M D

Abruzzese, G The Constitutional Predisposition to Tumors of the Genital Organs in the Female (La predisposizione costituzionale ai tumori degli organi genitali nella donna) Riv ital di ginec, 1934, Supp Vol 17

This article is based on a study of 219 females with extragenital tumors, 2,237 females with tumors of the genitalia, and 1,000 controls. The patients with extragenital tumors were studied to determine the occurrence of multiple tumors in association with genital tumors. All of the tumors were examined histologically. The 2,237 tumors of the genitalia included 1,159 fibromata of the uterus, 297 simple ovarian cysts, 147 malignant ovarian tumors, 167 carcinomata and adenomata of the corpus uteri, 422 carcinomata of the cervix uteri, and 45 vulvovaginal carcinomata

Heredity was found to be an important factor in the development of tumors as a history of maligwas very well supplied with vessels, particularly irraph vessels

Because of its site, Walks concluded that the tumor had its origin in the connective these supporting Burtholin a stand.

(SCHULER) JACON E. REPPR, M.D.

Schauffler, G. C., Dake R., Crynes, S. F., and Schruffler G. Infection of the Immercure Veglins; Observations and Results. A Study of 187 Patients. Rest. J. Surg. Obst. or Gyme. 934.

Of the 50 cases of infection of the immature varian reviewed in this article, of 5 were private cases and 8 were dispensary cases. The uthors that that although it was formerly believed that children with such infectio should be hospitallered, many hospitals avoided staller them as they expended it is use to group such children with children who were undirected. Timally the conclusion was drawn that the dogmatic pulmp in favor of hospitalization was findamentally, word.

The uthors report the organization of an outpretent clinic for such children. Children who are court cases and those who cannot be satisfactorily masaged in their own homes are commuted a the care of feater mothers under very closs supervision by social services and winting unuse agencies. Thereby they are holisted from contact re-suffection a the out-hospitalization and ser kept from being stipcourt for the contact of the contact in the contact in treated and become with kindly personal separvision in cruzive homes.

The authors discuss chiefly a method of treatment devised on the basis of the suggestion of Gelborn and Stein. In this procedure subjection knobs with a r per cent content of silver afters is mirroduced into the lafecter sugars under sufficient preented to cause defaults ballooning and thorough and prolonged polication ( the authorities of the prolonged polication ( the authorities of the silver and the silver and the support of the pro-

Uf the forces reviewed, ally og are discussed in detail. The pootbers are caricular from detailed the pootbers are caricular from detailed discussion because the condition was not tree veginint, the patient was still under treatment when the report was written, the patient did not complete the treatment, stilled it return for re-examination, or received other treatment, or the diagrams was questionable.

Gonorhoss was demonstrated by positive amazir as g per curi of the go, cases and was believed by the thors to have been the cause of the condition in a large number? Hoses in which the ameris were questionable or negative. A cure was obtained in at (50 per cmt) of g cases with positive ameris, so (8 a per cmt) of g with suggestive sinears, and 6.82 r per cmt). I 6 with negative mices.

In the dispensity cases, in which the duration of treatment before pronouncement of cure was longer the underect of recurrence was lower and the incidence of cure was higher than in the private cases. In the total under of cases the incidence of

In the total umber of cases the incidence of single recurrence or re infection was 5 per cent.

It was found that children who have once anferred variant infection are smuch more apt to contract a subsequent infection. However the symptoms and active infection were relieved very much more easily and quickly in subsequent attacks then in the mittal titack.

Factors favoring recurrence or re-infection funds systemic infection, mereting and fatigarity circuits, proctifit, pin worms, materialment, prefilts, and foreign bodies. True endocratical, prefilts, and shealth are seidem of importance in this repeat. An examination for foreign bodies should be made in every case of suspected vigidity and factor. The presence of foreign body is within manifested by a recommendation of correlated by a second process declarate Loss of blood is seldem noted in the upual symmits.

In unafter groups of cases various antiseptic, or employed, but none as as efficient as the sathors method. The me of empositionic containing pyrids in its gridts have as found of value as as adjunct treatment. The explosition of ordio quarter to the containing the employed of the containing the containin

Trapi, J. The Treatment of Primery Cancer of the Vegins (Behanding des primeres behandenkreisen) Rezid Chw. Gynesi ( Gynesi 914, 1 81

The author reports 6 cases of primary cases of the varians which were operated upon actorching to his technique. Two of the parients remained cured after few years. Altogether: 5 cases of primary cancer of the varians ere found among 6.5 cases of cancer of the cervix treated in the period from primary cancer.

tyl The condition is extremely malagnatic According to the reports in the orial intertier, as absolut cure is obtained in only from 6 to 3 per cent of the case. The author gives bird breaker of the different operative methods and describes he own method. The latter is combination and modulfication of the Cunfo Proof method and the Asmolich need bod.

After an arch-shaped incressor. It his course is do nateror bias been made in the perheum frees not tuber uchn to the other the vagna is dissected from the rectum, vagnal off in made, and the parametrial factors are the made of the perheum free perheum parametrial finence are the rectus are then dissected, the cult fees of other architecture then dissected, the cult fees of other architecture that the perheum free dissected of the control of the contro

that of the vagina) The lateral parametrial tissues and the round and infundibulopelvic ligaments are divided The peritoneum is closed by a suture including the adnexal stumps The perineal wound is then sutured and the wound cavity tamponed After the operation from 2 to 3 roentgen treatments are (FRIEDL) LOUIS NEUWELT, M D given

#### MISCELLANEOUS

Bishop, P M F, Cook, F, and Hampson, A C Indications for the Clinical Use of Progestin Lancei, 1935, 228 139

The rôle of progestin in normal menstruation is to produce the progestational phase of the endometrum and inhibit the spontaneous activity and responsiveness of the uterine muscle to oxytocin (from the posterior lobe of the pituitary) This role persists during the first three months of pregnancy

When progestin is prematurely withdrawn during the menstrual cycle the uterine muscle undergoes violent and painful contractions giving rise to dysmenorrhæa The result of the withdrawal of progestin during early pregnancy is habitual abortion due to the return of the uterine contractions and withdrawal of the stimulus to decidua proliferation Therefore, in both of these clinical conditions pro-

gestin is indicated

In cases of menorrhagia and metrorrhagia in which no pathological condition is found in the pelvis and the abnormal bleeding is considered due to inadequate stimulation of the ovary by the pituitary gland, progestin is of value when administered with pituitary preparation. When the deficiency of pituitary secretion is so great that the ovary fails to secrete sufficient cestrin or progestin to stimulate the uterus, an infantile state of the pelvic structures Clinically, the menses are scanty and infrequent and associated with dysmenorrhoea, or Functional sterility complete amenorrhœa occurs may also be present Large doses of cestrin are sometimes successful in developing the uterus to the adult size, and if they are followed by progestin, menstruation may ensue

On the basis of these facts the authors suggest

the following dosage

Habitual abortion One rabbit unit of progestin given daily for two months, the treatment being begun a month before the usual time of abortion.

Threatened abortion One rabbit unit of progesting administered daily until the signs of threatened abortion, that is, bleeding and pain, have disappeared. Rest in bed is essential during this treat-

Functional menorrhagia Extract of the anterior lobe of the pituitary gland given by injection up to 500 rat units three times a week over a period of two months The course may be repeated after an interval of a month or two In the premenstrual phase and during the time of bleeding the extract should be given daily, together with I rabbit unit of progestin

Dysmenorrhæa One rabbit umt of progestin given as soon as the pain begins or a day or two previously. if possible, and continued until the period ceases

Uterine hypoplasia The injection of 250,000 international units of œstrin (in the form of di-hydroæstrin benzoate) on the first, fourth, eighth, eleventh, and fifteenth days of the course, a total of 2,500,000 units being given On the nineteenth, twentieth, twenty-first, twenty-second and twenty-third days the administration of 1 rabbit unit of progestin Menstrual bleeding may occur on any day up to ten days after the last injection of progestin course, as originally outlined by Kaufman, should be repeated The success of the treatment is determined by measuring the increase in length of the The treatment does not appear to be effective in severe and long-standing secondary amenorrhea or in most cases of primary amenorrhea

The authors admit the difficulty of evaluating the effect of progestin in threatened and habitual abor-A. F LASH, M.D.

Barringer, E D The Treatment of Gonorrhoea in the Female J Am M Ass, 1934, 103 1825

This article is based on the cases of thirty women with genital gonorrhea who were treated with gradually increasing doses of vaccine, five who were treated with small doses of vaccine, and thirty who were given only routine treatment. The vaccine was prepared by the New York City Bureau of Labora-

tones from seven of the Torrey strains

The results, while not entirely conclusive, were sufficiently good to warrant further investigation The vaccine treatment seemed a valuable adjunct in the acute and subacute cases and also in the chronic cases without a "mixed" infection. As the larger doses caused a considerable local and general reaction, the author questions the advisability of their use The general impression was that vaccine therapy in conjunction with routine treatment may shorten the period of hospitalization

HENRY S ACKEN, IR, M D

Abruzzese, G The Constitutional Predisposition to Tumors of the Genital Organs in the Female (La predisposizione costituzionale ai tumori degli organi genitali nella donna) Riv ital di ginec . 1934, Supp Vol 17

This article is based on a study of 219 females with extragenital tumors, 2,237 females with tumors of the genitalia, and 1,000 controls The patients with extragenital tumors were studied to determine the occurrence of multiple tumors in association with genital tumors All of the tumors were examined histologically The 2,237 tumors of the genitalia included 1,159 fibromata of the uterus, 297 simple ovarian cysts, 147 malignant ovarian tumors, 167 carcinomata and adenomata of the corpus uten, 422 carcinomata of the cervix uteri, and 45 vulvovaginal carcinomata

Heredity was found to be an important factor in the development of tumors as a history of malig-

nancy in other members of the family was 3 times as namely an assert measures or one namely was y times as frequent in the cases of nexplasm as in the control Most commonly the history of multipracy was on the material side of the mally like hereditary. the material size of the industry and are necessary tendency may be merely a general predisposition to tendency may be merely a general precusposition to tumor formation, but frequently is specific as to the conce extra tree. A histological specified and the times. A histological specified and the times. att of the tumor A metospical specificity was noted except in the occurrence or abcomata. The coefficient of heredity was highest in cases of car

cocurrent or occurry a set organics to cause or car chooms of the overy a fact which may be related to choma of the overy a fact which may be related to malignant transformation of benfor cyta. It was noted also that in the case in which beredity was more also use; in one cases in which seriously state factor the tumor appeared order in life.

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norms, but any norm more over with simple cyres.
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Carcinomata were most common in females of rection and dutie normal development in terms and comment in terms of the comm to those of the the crewet as assistable order and terrant analysis or and terrant and terrant orders and terrant orders orders. to true type of the tell this retheric type. Vet O RE, in these or the task than account type that infrequently the count of paperty was retarded in priority and prior developed prompts appears the terrane amounter neverther accounting a necessaries fercise seemen true in trace was ceremon overtaken overtaken suggests that the associa tunors. This concern con suggests tout the association of absorbats and steribly is not local phonontoo or opennass and memory as not social poemons, but skely to occur in a certain type of ladd.

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Lexices and scars of the vulva and vagina are of prime importance in the determination of the occar

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OROBOR C Trops, M.D.

## **OBSTETRICS**

### PREGNANCY AND ITS COMPLICATIONS

Robinson, L, and Datnow, M M The Differential Diagnosis of Pregnancy Lancet, 1935, 228 1

The authors discuss the indications for the diagnosis of pregnancy from the personal, legal, social, and medical points of view. In discussing the methods of making the diagnosis they emphasize the importance of considering the clinical features in the interpretation of the results of the tests. They state that it is in the complicated cases in which organic disease is associated with the pregnancy that the greatest difficulties arise. The variability of the symptoms and signs is shown by tables

The first test for pregnancy consisted in noting the effect of the woman's urine on barley and spelt This test was recorded in Berol's papyrus dating

back to 1350 BC

The most recent biological tests, such as the Aschheim Zondek, Friedman, and Brouha tests, are described and discussed The Liverpool Pregnancy Diagnosis Station uses the following method

One-ball cubic centimeter of early morning urine is injected into four immature female mice weighing between 7 and 12 gm each. The injections are repeated twice daily until five have been given From ninety six to one bundred hours after the first injection the mice are killed and their genital organs examined.

The results are classified as simple positive, simple

negative, and modified reactions. The simple positive reactions, which are typical ovarian and uterine changes, are due to the combined action of prolan and cestrin and indicate the presence of active chorionic elements in the patient's tissues. The simple negative reactions are obtained when both prolan and cestrin are absent from the test urine. The modified reactions are of two types. In the first type, the experimental animal shows distention of the uterus, but no change in the ovaries after the injection of the test fluid. According to the authors'

women with threatened or incomplete abortion. In the second type of modified reaction there is hypertrophy of the walls of the uterus, hut only partial activity (follicular distention but no hæmorrhage or luteinization) in the ovaries. This reaction is due to the presence of one of the prolans (and absence of æstrin) in the test urine. It may he produced by the urine of women at the menopause,

experience, this reaction indicates the presence of

only one hormone in excess in the test urine, namely,

women with genital tumors, and women who have heen subjected to castration

In conclusion the authors emphasize that these tests are made to determine the absence or presence

of bormones and their results must be interpreted in the light of the clinical findings

A I LASH, M D

Gregersen N F On Ectopic Pregnancy Acta obst et gynec Scand, 1934, 14 346

The author reviews ninety-five cases of ectopic pregnancy which show that the condition occurs with equal frequency throughout the period of fertility

Thirty of the women were nulliparte and sixty-five were multiparte. In the majority of the cases there

was a period of secondary sterility

Twenty one of the women gave a history of salpingitis, four had been operated upon previously for ectopic pregnancy, and five had been operated upon for other conditions. Fifteen had never borne a child or had an abortion or suffered from any disease of the internal genital organs.

The general symptoms of ectopic pregnancy are described. Of twenty cases in which a diagnostic curettage was done, examination of the mucous membrane showed decidual changes in nine.

Of seven cases in which the Aschheim-Zondek test was carned out, it was positive in five. In the two cases in which it was negative, tubes containing a dead embryo were removed. It is evident, therefore, that this test is a valuable adjunct in the diagnosis.

Of twenty-two cases in which the gonococcus complement fixation test was carried out, it was

found slightly positive in four

In all of the cases the treatment was operative

removal of the ectopic pregnancy

The findings of pathological examination confirmed the opinion that the cause of the retention and implantation in the tube is to be sought neither exclusively nor as often as is believed by many in an earlier salpingitis, but rather in ability of the tube to produce decidual changes, endometriosis of the tube, or congenital malformations. Moreover, in a number of the cases the inflammatory changes in the wall of the tubes were of such a nature that they could well be considered secondary to the presence of the ovum

The author beheves that the transfusions of hlood given in some of the cases—most of which were auto transfusions—were responsible to a great extent for limitation of the mortality to 2 per cent. This opinion is supported by the comparatively sbort time the twenty-two patients treated by transfusion were confined to bed. In these twenty-two grave cases with profuse hæmorrhage recovery resulted in a shorter time than in the remaining sixty-three cases in which no transfusions were given, the average number of days required for recovery in the two

INTERNATIONAL ABSTRACT OF SURGERI groups being 1 only and twenty four days respec-

Trillet, P. I. Autogenous Vaccines in the Treatment Hat, F / Autogrands vacuum in the specimens of Preparately (for spicor pyrionepoints or prepared for set story (i.e. set story) (i.e. set stor

Because of the aide differences of options regarding the value, technique of administration, and ing the value, securative to assume the preference, and the value of preference in prefix of preference and pre anous is account in reactions in popular or pregnancy on attention to a superior of the control of the co proved to be registral to ordinary medical methods proven to be reasonant to ordinary memoral memoral freatment (diet, urbarry antherptics) before the raccinotherapy was instituted

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In over case the interspentic result as considered rescaled in seventien it was only sufficiently and the patients outst not be interest subsequently and the constant of the Large patients cross not be traces susceptionly and the second of the large second of targe acre my demonstra to a now beneficial to the treatment as not beneficial to the demonstration of the second cases in wines the treatment as not recognite
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Connoll, N HAROLD C MACK, M.D.

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The author reports studies of the liver function of anily are brokened source under ith morphon too of the Jacobs technique which control care. tool or the Jetting the legislythe response to act asted gate entered (palaries) of carolhopes) unterpring the entered palaries of carolhopes undergond on score of the carolhopes of the car vated near received (inspection or transported in the motion subjected to the test acre posters account to anyone reflect on the test step true months with or true mention embleries on the test step true posts. cer acto normal appear to annear refler or bedsency three nad sayes and columns and columns.

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fifteen minutes to the other hand, in thirty-onesses of storic thereing following expeditors of the placents, good results were obtained fitness the little placents, good results were obtained from the little macular joiceland of e.g. (mgn) of ergestamine tartraits and minutes) is from threat e-right erlection. He of terior large toom the consensure to only four cases. In seven cases romiting occurred from one to two howers after the higheston. Of forty-erlight cases in which only M mgm of ergetambe tertrain was given intramentally the results were nonsativative and it was admitted to the production and it was admitted to the production and it was admitted to the production of the produc

In bediancers, the administration of ergonamics that the by alchaes the form of ergonamic tands to by alchaes the form of ergonamic tands to by alchaes the form of ergonamic probled good results. In give of the subserveible results obtained by Boerong, Koerting, Tarold, Schimme, and Schnitzer with preparations of schimme, and Schnitzer with preparations of property organization of the subserveible results demand demand above the authors attempted to employ ergogar to unprove below prains are the sign of the good results observed with the preparation by Herff. We shakeners Uter and others

In preliminary tests made in five cases of dead

because t was found impossible i three to ensuce tabor by to injections of & tegm at intervals of one andone half hours, and in two by three injections of 14 segto at half-bour intervals. Following these tests, twesty-two women a th premature rupture of the membranes, fifteen of whom were in the stage of dilatation, were given from one to four injections of ki mans at ball hour intervals, and after a period of intency of from fifteen to twenty minutes a good effect on the contractions of the terms was observed The use of forceps became necessary is only two cases and then not until several hours after the salec tion. One of these cases required high forcers. I the case of a pure. there was noted, fier the third injection, a transpory disturbance of the heart tones of the child which coincided with vomiting of the mother After forcers delivery the child developed tetame aneses of the lower brahe and died of preumonia and cerebral humatuma thurty one hours later Another child was been spontaneously in severe asphyxia as the result of powerful tetanic expulsive pains and could not be revived. Because of the torse phonogens, the authors believe that in the first case death was caused by direct toxic layery t the circulation of the fetus

After the third nection of 19 mgm at half been intervals there was often as excavaluates of texas which was memiasted by counting. A other toxological control of the control of the control of the control of time (4) mgm duly for terms days) there were then the design was given for considerable period time (4) mgm duly for terms days) there were the control of the

sure of from so to 25 mm. Hg was first observed after 35 mgm had been given latriassescalarly After this dose, no change was observed in the blood pleture. (Fazza) four W Brayvar, MD

Kottzueler II. L.: The Ranoitz Obezined With Thymosphysin in Cases of Wesk Labor Point (Resitate sait Thymosphysin hel Webranch socieus) Atta old. of green Sasani 194, 14 151.

After a brief critical review of the literature on thymophysin, the author reports the results ob tained with this substance in 161 cases of primary and recondary uterine mertin on the service of Abbitrom at Aliminua Barabordshmet. The nor tality and morbidity of the mother and child in these cases are commoned with the correspondent mortality and morbidity is \$10 cases of primary and secondary terine inertia in which no labor influening drug was given. This comparison shows that the use of thymophysm considerably improved the prognosis for the mother and child and decreased the autaber of dengerous obstetrical interventions On the other hand, the athor calls theston to the fact that the monkyma me came amberia that occasionally its injection is followed by speam, and that different nomen react differently to the same door Because of these facts he emphasies that thymophysus should be given only is cases of terine inertie and at first in dose of less than M c.cm a amount bick apparently is associated with shight denger

Cours ladications to the use of thyrophysic are contracted peirus, transverse position and lacorrect presentation of the fertia, and renal and cardiac disease of the mother

In traffer of the blood pressure saide during and between the pairs in the periods of disturbing and expedition in the case of some treated with tigrosphysic the subset found on opercashic forces or compared with case in which thysicophysis were seen that the subset of the case of the procedure and contract the case in the presence of a moderate normal method perssure.

Thyrrophysia, was not effective in exhausta patents of the probleb period. It was widout apparant effect also is from 10 to 35 per cent of the reviewed came in which the mobiler as thoroughly rested and labor had begun. Possibly the last, wifers was due to the fact that the subdence of the control of the

Leon, J. Dalayed Ruptura of the Beg of Waters Cartain Reflections Consciousing the Byrithesis of Kreis (Rupture returbed do is peche deents: Quidques Effections is propos der hypothesis de Kreisi Gyalt de she (1943 19

It is sell known fact that during labor the per senting part, even in the absence of pelvic obstacles, may fail to descend and the bag of ten remain surreptined despite advanced or complete distantion of the cervix The author takes exception to the recent explanations of this phenomenon offered by Kreis and the Strasbourg school, namely, that the bag of waters retards rather than promotes the progress of labor. He bases his remarks on a case observed by him in which the fetal head, after having been deeply engaged, returned to the superior strait.

The author lists numerous factors which determine the time of rupture of the membranes The chief factors are mechanical, i.e., they depend upon the relationship between the intra amniotic pressure during uterine contraction and the elasticity of the membranes during their distention During the period of dilatation, rupture of the membranes is prevented by a regulatory mechanism in that, as the intra-ovular pressure increases, the distensibility of the bag of waters is increased by progressive separation of the membranes from the uterus which results in an increase of volume and at the same time a diminution of the internal pressure. Theoretically, late rupture of the membranes may be due (1) insufficiency of the uterine contractions, (2) oligohi dramnios, (3) sealing of the big of waters by the presenting part during contractions, (4) extensive separation of the membranes from the uterus, and (5) diminished resistance of the lower uterine segment

While in exceptional cases rupture of the membranes may be prevented by greatly thickened and toughened membranes (pathological), early rupture or late rupture does not necessarily imply variations in their structure. Mechanical factors must be sought for, chiefly factors concerned with the state of the lower uterine segment such as were present in

the case cited by the author

By means of an instrument devised by him and shown by an illustration included in the article, Leon attempted to reproduce the conditions present in the parturient uterus. From his findings he concludes that transverse expansion of the lower uterine segment (without marked elevation of the contrac tion ring) explains why the bag of waters does not rupture even though the membranes are not unusually resistant. It explains also why the presenting part does not engage when it remains elevated and why it may rise again after having been en gaged The bag fails to rupture because the intraamniotic pressure is lowered (provided, of course, the membranes are sufficiently distensible) head fails to descend because, after they give way, the walls of the lower uterine segment no longer have a tendency to constrict and the fetal head no longer has a tendency to engage itself through flexion If the head has already penetrated the pelvis its "potential energy" tends to carry it to the superior strait in an indifferent attitude Knowledge concerning the physiology of the parturient uterus and the properties of the membranes proves that relaxation of the lower uterine segment is due, not to excessive pressure of its contents (ovular theory), but rather to the diminished resistance of its walls

(segmentary theory) This, in turn, is the result of inhibition or active decontraction of the circular fibers or the altered state of the tissues (fatty or hi aline degeneration of the musculature, alterations of the elastic elements) which causes them to give The author designates it as "the way readily syndrome of giving way of the lower uterine segment at the end of the period of dilatation in the presence of normal uterine contractions" He suggests this special designation to emphasize the theory of pathogenesis which he considers most plausible and to distinguish the condition from other secondary dynamic insufficiencies in cephalic engagement and uterine distocia which are also characterized by transverse expansion of the lower uterine segment but in which there is concomitant tetany or retraction of the fundus

HAROLD C MACK, M D

Burns, J W Breech A Method of Dealing with the Aftercoming Head J Obst & Grnac Brit Emp, 1934, 41 923

The author presents a method of dealing with the aftercoming head which he believes permits the head to follow the normal course of delivery and prevents the application of undue force to the child

The method is as follows

After delivery of the arms and shoulders the child's body is allowed to hang from the vulva. This produces flexion of the head and brings the nape of the neck well into the subpubic angle. In most instances it brings the head through the brim with minimal force and traction. If the weight of the child's body alone is not sufficient to accomplish this, suprapubic pressure may be exerted by the obstetrician. When the head is in the pelvis the obstetrician stands sideways to the buttocks and, using the hand farther away from the patient, grasps the ankles of the child in their most dependent posi



Fig r The position of the infant at the moment the grip is first applied and traction is exerted.



Fig. Completion of debvery
tion and applies tension outward and appeard, indi-

ing the child and at the same time extracting it. The force of extraction which can be employed in relatively slight, but must be maintained for the use of an upward force slone will result to sections in 1 the child. Burns emphasized that have a unnecessary in delivery of the breech presentation that are the section of the section is a section of the section of the section of the Herox 5 Across, j. B ID

#### MISCRILARIBOUS

Configuration, N.: The Behavior of the Blood Begar After Injections of Pincental Extracts (Il tone pertanents del tisse ghomeon in segme all injections de estratin pincentan). Ess sel de poer 1936, 7

Since the discovery of basslus and recognition of the fact that other schattares also may produce hypoglycamia, various extracts of the placenta have been standed to determine the relationship of the relacrists to extrohydrate metabolism. The man-

researches reported in the interature are reviewed. The author made a zeros of expendents in which placestial extracts were instructed and included into anomals were recommended and the blood engage fewer these devices review and the blood engage fewer these devices are not as a second produced a constant hypersystem of the curve of allmentary dynamics. The results were designed whether the structs was introduced absolute only in terms only or introperformedly and better they make the contract was introduced absolute only the above the produced of the contract of the

trol produced analogous but less marked changes. On the basis of these results the author ossekules that extracts of the placents axert—specific but och a moderate influence on the blood sugar level.

A Loca Rose, M D.

## GENITO-URINARY SURGERY

### ADRENAL, KIDNEY, AND URETER

Goldzieher, M, and Koster, H Adrenal Cortical Hyperfunction Am J Surg. 1935, 27 93

Five cases of hyperfunction of the adrenal cortex treated by unilateral adrenalectomy are reported Four of the patients were benefited and one died Histological examination revealed a pathognomonic alteration of the reticular zone Enlargement of the adrenal gland was not equally conspicuous in all cases Storage of lipoids in the external layers was always evident but did not differ materially from that occurring in cases of adrenal lipoidosis without the clinical symptoms described In all five cases, microscopic study showed the hitherto unrecognized formation of an unusually broad reticular layer in the cortex The authors do not recall having seen comparable cortical changes in any other condition

The tripartite syndrome includes hirsutism, obesity, and menstrual disorders. Three glands can be brought into causal relationship to it the pituitary, the ovary, and the adrenal. In an analysis of the glandular factors responsible, the authors point out differences in the symptoms. They state that the differential diagnosis of the underlying morbid changes requires both positive and negative findings -negative findings as regards two glands and posi-

tive findings as regards one gland

When the ovary is responsible, the cause is probably an ovarian neoplasm Gynecological examination usually reveals the presence of such a growth If an ovarian tumor is palpated in a patient with hirsutism, generalized obesity, amenorrhœa, or metrorrhagia, the diagnosis is rendered certain. In the presence of virilism with a large clitoris, a husky voice, and atrophy of the breasts, the diagnosis of ovarian arrhenoblastoma may be made If bimanual palpation is unsatisfactory for any reason, other causes must be excluded

In examination of the pituitary greater difficulties are encountered Roentgenography of the sella turcica and studies of the evergounds and visual fields yield excellent presumptive evidence if they are positive However, negative findings are obtained in cases of small tumors (basophilic adeno mata) Disturbance of carbohydrate metabolism suggests pituitary disease A high sugar tolerance and a tendency toward hypoglycæmia accompany hypofunction and a decreased sugar tolerance and hyperglycamia are usually associated with hyperfunction of the anterior lobe of the pituitary gland Chemical study of the blood may disclose a high uric acid content Disturbances of chloride metab olism combined with either oliguma or polyuma are indicative of a posterior lobe affection Frequently an affection of the posterior lobe is associated with

an affection of the anterior lobe. Disturbances of sodium chloride metabolism are revealed by a sodium chloride tolerance test

Determination of the basal metabolism yields little or no information, but the specific dynamic action of proteins is of greater significance in pitui tary disease if a small protein test meal is used. The specific dynamic action is low in hypopituitarism In cases of tumor it is normal or elevated. Another diagnostic aid is the fat-tolerance test. If fat is fed to a normal or obese individual the acetone-body content of the blood rises In pituitary obesity there is no such rise Pituitary disease may be revealed also by skeletal measurements, the facies, the appearance of the skin and teeth, and the distribution of pigment Conclusive evidence of pituitary hyperfunction is the demonstration of pituitary hormones in the blood or urine. In the immature mouse, a positive reaction is shown by maturation of the ovarian follicles

Exclusion of the ovary and pituitary as the sites of the lesion points to the adrenal cortex as the cause Bilateral diffuse hyperplasia of the cortex or a tumor can be differentiated only by inspection Marked virilism is more likely to be the manifestation of a neoplasm and obesity a manifestation of The demonstration of the cortical hyperplasia hormone in the urine has not yielded unequivocal results Thus far, a substance showing physicochemical properties similar to those of interrenin has been isolated Louis Neuwelt, M D

Geschickter, C F Suprarenal Tumors Am J Cancer, 1935, 23 104

The author reports 105 primary tumors of the suprarenal gland Among them were 66 benign and 6 malignant tumors of the cortex. Of the benign tumors of the cortex, 63 were found at autopsy and had been asymptomatic The principal signs of the 3 others were sexual precocity, hypertension, and a mass Those of the malignant type without symptoms of excess suprarenal secretion were associated with obesity, hypertension, and a mass. In the cases of symptomatic tumors, virilism, hirsutism, and hypoglycæmia were found

Malignant tumors of the cortex of the suprarenal are rare. They are accompanied by pronounced endocrine disturbances Children with such tumors show sexual precouty, whereas adults show marked sexual inversion Females are more affected than males In children, skeletal changes, disturbances of sugar metabolism, polycythæmia, and mental retardation are frequent, and in adults, psychic disturbances are common The pituitary sex hormone, female sex hormone, and Prolan A may be present in

the urine

To explain the sexual changes the following theories have been advanced.

The adrenal cells of the tumor act fadirectly on the gonada

z The changes are produced by the adrenal cells which retain their primitive sex functions

3 The adresal cells stimulate the anterior lobe of the piteltary which in turn acts on the gonada The evidence favors the latter two theories

The nordalizer tunner attered to stage at the adult of the stage at the cold which is separated from the heavent creat carry in embryone life. They may be very seaflings and the being 0.15 so both tunner reported, 25 were neutroblastomets. Seventeen of the historicomer of the control of the

In the case of suprareal t mor in children the most common numficiations were an abbondument most common numficiations were an abbondument pain, womiting and emodation. For experimental content of the content of the

The tumors are not radiosensative. One surgical

cure has been reported

Among the se-optasms reported by the orthor were 8 paragraphorate which were equally defed late besign and makingant groups. Such acoptasms may be associated with the perfect such secondary resources mutability. Addison: syndrome multiple neurophorametosms, through control triple neurophorametosms, consuming on high perthyrolidiest. They rarely reach large case: The larger tumors are offer cystic.

The tumou reviewed included gangloocurous and chromatin tumor. These scophams are very rare. The gangluosurous is the most legily differentiated neurogent, tumor, and the chromatineous the most legily developed ondocurae tenure of the medicila. Malagnast and heurge varieties of each have been reported. Cause 19. Pracurat, MD.

Bener J and Leriche, R. The Clinical Aspects and Treatment of Paragnagheers. 10gb-Freenare Crises of Supersonal Origin (Enr. Khaik and Thompse des Faragnaghons Adventogens Handdracktrone). Ruse this Heatele 934, 84

Since the days of Pal, pressor valcular crises has been understood to be transitive, titarks of increased blood pressure which in most cases are due t central or refux blood pressure crises. T thus high blood pressure crises belongs also distinct

form which is independent of the aforementioned etiological factors and is classified by Bernal as being a materiality similar to surrioulouse or midulosurrioulouse hypertensif

The authori report a case of the latter type in which the attacks occurred in feety years old man which that attacks occurred in feety years old man who had previously been benkly. The attack always occurred in the same manner being across panied by a freding of emptiness in the explanation manner, facility paloty, pullor of the criteratures which felt cold to the touch pulpitation of the heart, abit felting, await feeling of polastice in the systems. They lasted for from one-half hour to see and one-half booms, and occurred duly with absolve regularity. They could not be fatherened in any by drays. Desirg year the blood preserve varied from a foot to the mm. Hig. During an attack it reserves the system of the system of the system of the system of the system.

some of appraisant origin was made After finding in the fiterature the reports of more than six similar cases which were operated upon saccomfally the authors applored the right kidney in their case. However, nothing absormal was found. At later exposure of the left kidney, a smooth escapsubtractumer the size of therry as found attacked to the inner pole of the left suprarenal gland. Since the removal of this tamor the tracks have not re carred Histological mambation of the seconds revealed the typical signs of a paraganglions. When such a condition is assumed after all diagnostic asks have been enhancied, entirpation of the tumor is the only therapeutic measure to be considered. Extir pation of the appearanal gland should not be door Attention is called to the fact that in the case reported the pulse rate was either normal or defnitely reduced during the high-pressure crises. The authors are unable to offer an explanation. They behave that is this form of alge present bradycarries the great facrouse in the arterial present during the attack undoubtedly results in increased arministion of the pressor-receptor nerve areas in the carothl sinus and the arch of the aorta which wild necessarily produce a radex bradycards bradycardia proves also that there is no vascular erierons in cases of this type

(P SCHEE PLANEAUC) MARKES J SEITHER, M.D. Priven, M. Q.: The Internal Topography of the Arterial System of the Eddery and Rese

Arrival flystem of the Existery and Received Periods of Developed Periods of Periods (Received Periods of Received Periods of Periods of Received Periods of Received

Following review of the literature the action first describes the incided send by him on the storic of the interest topography of the arterial section of the interest property of the arterial section, the brushly reserved kidney of a larman brung, doc, cit, or rabbit to filled by the impection may be untere of construct sections, a mixture of glasery.

plaster of Paris, and water) and studied roentgenographically. To study the vascular system of the kidney, a mixture of litharge, white lead, or lead oxide in vaseline or oil of turpentine is injected into the vessels through a cannula. Dorsoventral, lateral, and stereoscopic roentgenograms are then made. In addition, a combined method is used to ohtain simultaneous views of the vessels and renal pelvis.

In studies of 432 kidneys (among which were 119 human specimens), 942 roentgenograms were taken From the findings the author draws the following

conclusions

Comparison of the renal pelvis of man and domestic animals showed a similarity hetween the renal pelvis of man and the pig on the one hand and hetween the renal pelvis of the dog, cat, sheep, and rahhit on the other On the hasis of form and development the following 4 types of renal pelvis are recognized in man and domestic animals (1) a dichotomous hranching of the ureter in the kidnevs of large ruminants such as the cow and ox (rami ficatio ureteris), (2) a 2-horned renal pelvis in the monopapillary kidney of the horse (pelvis bicornis), (3) a renal pelvis with leaf-shaped hranchings in smooth kidneys with complicated papillæ (cat, dog, rahhit, sheep), and (4) a renal pelvis with true calyces in multipapillary kidneys of the human heing and swine (omnivora) The extrarenal type of renal pelvis is more constant in the adult and the intrarenal type more constant in the newhorn Ivanitzski's classification of renal pelves into the emhryonic, animal, and human types has heen proved inaccurate Kuprianow's division of the arterial system of the kidney and renal pelvis of man into a complete and an incomplete type is not correct from either the theoretical or the factual standpoint On the hasis of phylogenesis and onto genesis as well as the anatomy at different age periods it is more correct to distinguish the following 4 types (1) the early emhryonal, (2) the late emhryonal or fetal, (3) the adult or mature type, and (4) the infantile type In the lower animals as well as in man the hranching of the renal arteries is not uniform There are 4 types (1) the first magis tral type, which occurs chiefly in the large ruminants, (2) the second magistral type, which occurs in the horse, (3) the scattered type, which occurs chiefly in Lidneys with a leaf shaped pelvis, and (4) the hisurcation type, which occurs chiefly in omnivora Between these types there are transitional forms The branching of the arterial tree in the kidney is related to the structure of the kidney as a whole and the renal pelvis The relation between the arterial system of the kidney and the renal pelvis is so constant that in the lower animals it is possible to determine the form of the renal pelvis from the character of the vascular tree as shown in the roentgenogram and vice versa. In the cases of human beings it is possible to determine the type of distribution of the renal arteries with considerahle accuracy from the shape of the renal pelvis as demonstrated hv pyelography and the number, direction, and position of the interlohular vessels from the character of the calyces

Pyelovenous hackflow is due, not only to simple mechanical stretching and tearing of the renal pelvis, but also to the anatomical structure of the

organ

In conclusion the author says that roentgenological examination supplementing the corrosion technique is of great value in the study of the internal topography of the kidney. Because of its special clarity it should be employed in the study not only of human anatomy but also in that of the lower animals for which it has been seldom used heretofore. (Colmers) Jacob E Klein, M D

Noszkay, A von The Value of Decapsulation in Cases of Medical and Surgical Nephritis (Der Wert der Dekapsulation in Faellen von internisti schen und chirurgischen Nephritiden) Zischr f urol Chir, 1934, 40 107

Von Noszkay discusses the value of decapsulation of the hasis of twelve case histories and draws the

following conclusions

The surgical treatment of non-suppurative and suppurative kidney inflammations has two aims (1) to arrest the inflammatory process and thus prevent further destruction of the parenchyma, and (2) to increase the more or less decreased function of the kidney as much as possible. The procedure best meeting the requirements is renal decapsulation by which the kidney attains conditions favorable for healing. While the favorable conditions usually last for only a few weeks or months, this length of time may be sufficient to arrest the inflammatory process in the kidney or even to bring about complete healing.

The effect of decapsulation may he attributed to the following factors (1) removal of the capsular tension, (2) the sympathectomy action of the capsular resection and the rehef of the angiospasm with a resulting increase of diuresis and cessation of the kidney pains, and (3) the removal of the infectious and toxic tissue secretions by drainage of

the intraparenchymal tissue spaces

In non suppurative nephritis the disease involves chiefly the parenchyma whereas in suppurative nephritis it involves chiefly the interstitial tissues. Therefore the indication for decapsulation is quite different in medical and surgical nephritis. Von Noszkay states that hilateral hæmatogenic non-suppurative nephritis is hasically a medical condition, but there are mixed forms in which medical treatment is greatly helped by decapsulation. In the surgical treatment it must he borne in mind that the sites of origin of the infection (tonsils, teeth, appendix) should always he cleaned up or removed first.

In acute glomerulonephritis decapsulation can be recommended only in cases of severe oliguria or anuria. When acute glomerulonephritis fails to hecome cured or progresses under medical treatment,

bilisteral decaponiation performed as abon as posable is to be recommended to prevent the condution from becoming chronic. It is especially in such case, the subject of so much controvers), that a favorable result may be structed from the recession.

In chronic glomerulementritis and secondary scientic kidney long-continued improvement cannot be expected from decapsulation even though it may rejerce origuria or annula for a short time. Therefore in these conditions the operation is not find eated.

Most types of hemorrhagic nephritis should be classed with acute or chronic glomerulemephritis. The bleeding can usually encopyed by decipsulation, but necessaries was acute or considerable to the beautiful considerable and the state of the property of supportative nephritis are purely ampled discrete in many cases crow results following networks according to the considerable to the considerable and the process proposed, decapitation should be done as early as possible. It may be supplemented by neighborhood for it cases of trainery takes, by transcread infalings Rephrectour should be performed to only the most extreme case.

In chronic py elonopharta, py eincephritic selectible kidsey successful result from decappolation can be expected only when a sufficient amount of from choining parameters as different amount of from coming the condition being an infections discussed to the condition being an infections discussed of the parameters as more successful result can be expected from the operation than in cases of the parameters and the properties of the parameters and the parameters are more successful result can be expected from the operation than in cases of non-supportative actions; kidner.

In conclusion the withor says that while decapsulation has proved to be a valuable procedure in conservative surgery of the kidney careful consideration of its industions in smeatial for good results (Creators) Faiter A Sairs vs M.D.

Constraint, R. E. The Treatment of Bilateral Rental and Ureteral Calcult. J. Urel., 934, 53

In case of blateral rend and unreast calcult the thor perfers, when surper to undracted, to district the more leaves when surper to undracted, to district the more leaves of the leaves of the perfect by the norm results and those obtained by reducting an applicable to all cases Fallowing deceding an applicable to all cases Fallowing deceding a supplicable to all cases Fallowing the transmission of the better function, the consideration the various superior of pictoriany technology opphires up case of stone anapherications and case of stone anapherications of mass of the prevention of the prevention

Wharton, L. R. Pre-Operative Irradiation of Masgive Tuesors of the Kidney A Chilcal and Pathological Study 4rth Surg. 35, 30-35

The results of operation in cases of kidner temora use been unministratory. The data collected by the author above of that noticates experient in from the operation of the cases. In from the performed that is application, operation as performed teath data to operative shock occurred through

to 30 pe cent, and cure resulted in fewer than a per cent. Most of the poor results were due to the large size of the import and difficulty in its removal by the usual humber decision.

of the issue numer measure. The seven cases appointed by Wharton are divided into three groups. In Group: I are two cases of measure tumous operated upon a those previous irraduction. In the case case in this group the tumor was removed through a temperation and bisopy had been done previously by saother sergens. Because are proposed to the control of membrane proposed by a saother sergens. Because of multiple mightantishum in the a round, performing, and formation from a previously by another sergens. Because is not provided to the control of multiple mightantishum in the a round, performance, and formation from a previously and the control of the control o

In Group — ere there cases he which a music, sumor was removed after presidentary traduction in the first case, biopsy had been done. Because of adhesions, the prognosis was not very fix orbits! I the second case the tennor was a hyperscriptores of the summaring gland of the Gravita type the hidders was porusal. In the third case the negative Ma William Euron. In all of these cases they as a marked reduction in the slate of the tomos coloring tentilistics.

In Croup 5 were two cases of turner so small that her common irra flation was not recreaser

I conclusion Wharton says that pre-operatifersidation results is hydiotization, pyknosis, first mentation, and partial description of the midpant times and remarkable decrease in the size of the tamor. Irradiation is a visitable means of preparing for everstion, but does not care.

for eperation, but does not care.

The transperational person prevents trains to
the runer before the vessels are ligated and as the
most logical, clear and surest persons t bidge,
temorie. Charter D Pracenta MD.

#### BYADDER PERTHEA, AND PERTS

Rihmer B. von Saperiencas With Directicals of the Bladder (Lifekrangen ocher Shacad ertikel) Inchr J seel Cher. 914 40 3

ton Rihmer first discusses the arrows forms of diverticula of the bladder and their diagent. He then reports in detail twelve cases observed by him and discusses them critically. I has surpost treatment of such diverticals le-

makes sograture physical incursor in the notifies and opens the bindrier as the develocities on some easily separated from the surrounding transes with flags surrounding transes with flags surrounding transes with flags surrounding the transes of the states of the surrounding transes with flags of the surrounding transes with the surrounding transes. If rapidly is present, he access the six perturbated and mod saturation of the surrounding transes with the surrounding transes. If the surrounding the surrounding transes were the surrounding transes with the surrounding the surrounding the surrounding transes with the surrounding transes with the surrounding transes with the surrounding transes with the surrounding transes. If the surrounding the surrounding transes were surrounded to the surrounding transes and discrete surrounding transes.

hypertrophy of the prostate he operates in several stages. If the diverticulum cannot be freed from its adhesions, he fixes it to the abdominal wall and drains it externally after dissecting its neck from the bladder and closing the opening in the bladder. The diverticulum then becomes gradually obliter ated. When this procedure is impossible, removal of the mucosa with a sharp spoon or curette is considered sufficient.

Von Rihmer's conclusions with regard to the surgical treatment of diverticula of the hladder is

summarized as follows

When the diagnostic measures described have established the presence of a diverticulum which is due to obstruction in the urinary tract but empties simultaneously with the bladder, it is sufficient to remove the obstruction. In cases of retention diverticula with or without obstruction, the extra peritoneal operation with removal of any obstruction should be done in one or two stages, depending upon the development of infection and the patient scondition (Colliers) Leo A Juinke, M D

Marion, G, and Kogan, B Incrusted Cystitis (La cystite incrust(e) Presse méd, Par 1934 xcii 1812

The authors describe incrusted cystitis, a condition first reported by Fenwick, as a true infiltration of the mucous membrane and submucous tissue of the urinary bladder by calcareous deposits. It can be readily distinguished from the common calcareous deposits seen on the bladder mucosa in cystitis of long duration and from those which are often observed on the surface of an ulceration of the bladder

As a rule the onset of incrusted cystitis cannot be determined clinically. While the incrustations usually appear suddenly as a complication of chronic cystitis, they sometimes form rapidly in the course of acute cystitis. They may occur also in association with a tuherculous cystitis which fails to clear up after nephrectomy or may be found when new symptoms develop after an intravesical operation. Ur gency and frequency may he extreme, and pain, especially at the end of micturition, is common. The two chief signs of the condition are a terminal hæmaturia with clotted blood and the expulsion of calcareous concretions.

The diagnosis can always he made on cystoscopic examination. Besides more or less extensive and marked reddening of the mucosa, ædema, and areas of hæmorrhage, there are found the characteristic and more or less striking plaques. These plaques are in general white, but in some areas may be gray or even hlack. Their surface is irregular rather than flat like that of the leucoplakic plaque. They present a granulated appearance. They are usually multiple. Frequently, they appear almost confluent, but as a rule are separated by areas of red mucosa.

Histologically, the lesions show three distinct zones—a superficial zone with epithelial desquamation, ulceration, and incrustations of calcium phosphate, a suhmucous zone showing marked infiltration

with small lymphocytes and polymorphonuclears, marked vascular engorgement, and bacteria, and a muscular zone intact or completely sclerosed

The treatment indicated depends upon the degree of involvement. In mild cases the instillation of silver nitrate may be beneficial. In more severe cases the best results have been obtained from curettement. In the female curettement may be accomplished transurethrally after dilatation of the urethra, but in the male the lesions must be attacked suprapubically.

WILLIAM C. BECK, M.D.

Watson, E. M. Complete Rupture of the Urethra A Method of Repair in Delayed Cases J. Urol, 1935, 33 64

The author reports a method to restore to satisfactory function the completely severed deep urethra after its repair has been unnecessarily delayed

When the urologist first sees a case of rupture of the urethra in which repair has been delayed, marked fibrosis has usually taken place about the space hetween the prostatic urethra and the severed bulbomembranous portion. The end of the urethra is often retracted, entirely occluded, and drawn either lateralward or upward from its normal path. Pockets of infection may persist, sometimes with a sinus leading to the suprapubic region, the groin, the perneum, or the perifectal spaces, and the diverted unnary path has become a hardened fistulous tract

Watson reports three cases in which operation

was performed as follows

After suitable skin and genital sterilization, the patient was placed in the exaggerated lithotomy position and a sound gently introduced into the urethra as far as it would go An inverted U incision was then made in the perineum, the levatores ani were pushed back, and the transversus penner was hrought forward The central tendon of the penneum was cut across and the anterior end of the urethra located The latter was freed up to its distal point, care heing taken to preserve as much of the urethra as possible The rectum was pushed back, the end of the prostate identified, and the hardened scar tissue about the prostatic opening or about the urethra excised A No 28 catheter was then introduced through the urethra, across the wound, and into the hladder When the freed end of the anterior urethra was pulled down as far as possible toward the prostatic portion, there still remained an unhridged portion of about 11/2 in At this point, two flaps were cut, one from either side of the anterior urethra With maintenance of a base attachment to the anterior urethra, the freed flaps were rotated, their distal ends sutured to the prostatic urethra, and three submucosal supporting sutures placed around the flaps, the catheter being used as a splint The periurethral tissue was then huilt up around the anastomosed portion, the levatores am were brought together, and the skin and subcutaneous tissue closed around an oil-silk drain carried down to the periurethral layer and brought out at the lower angle of the wound

In both cases a satisfactory choical recovery resulted. The arise became free from infection and unlastice became normal. In one case, there was a moderate stricture. Elses Ress, M.D.

#### GENITAL ORGANS

Young, H. H.: Prostatic Calculi. J Und 934 3 660

This article is based on too cases of prostation cloud in the proceed of the Bardy Unobegod Institute, Baltimore The parients ranged in agreement to either the parients ranged in agreement the parients armber ere between fifty and fifty-alisy years. The calcular were associated with besses adenous of the prostate in sy class, with chronic prestating and carchioma in go, and with chronic prestating and carchioma in In 6, they were from disclosing the formation in In 6, they were from disclosing the formation in the contract of the contra

Loung divides prostatic calculi into those of the endorcaous type and those of the experience type The former are formed within the substance of the prostate whereas the latter are formed in diverticula. of the prostatic urathra or exter the arethra from the kidney ereter or bladder. The endogenous calcub are the more interesting because of the difficulty in explaining their owns and location and their relationship to other pathological constituous of the prostate such as hypertrophy cardinosa, in-fections, and shereses. Young divides endogmous raionh into the following 4 groups ( ) those amoclated with prostatitis, (2) those associated th hypertrophy (3) those toggesting carenossa, and (4) those occurring in both the prostate and the arinary tract. He reports illustrative cases of each of these types and of the exogenous type

Of the reversed cames of calcula susceptive the protestities, a bistory of genorities as a given in 54 per cent. The prostatic symptoms developed soon after the pronormal infection. However locary nature that calcula ofters follows a posorrhead infection without supporters for many rester. In 90 the large state that calculated the support of the first proposed of the present of the first proposed of the support of the first proposed of the support of the proposed of the support of the proposed of the support of the support of the proposed of the support o

The diagnosis of the presence of calcul, with prostrictie is usually made by X-ray assimination is only a small percentage of the review of cases wave the calcula revealed by creption when pressure was easily out the prostat. In the finger

The treatment is the reviewed cases of calculassociated with prostatitie varied greatly. I many cases to which the prostate is filled with small calculi the patient is quit comfortable. When the calcult curse irritation, borring, pair, kenstairs, difficulty and frequency of unfastion, marked desirecties, and back-pressers, the textice has significant that removed. He states that purse, operation and transverthral resection are not to be reconstanted by the state of the states of the states are not as a six level would seasily be compared to the states without operating of the unruler. This can often be accomplated with a current temporal hieral indicates into the prostation of the states without operating of the unruler. This can often be accomplated with a current temporal hieral indicates into the prostation capacity, the lobest being removed with schools of a fund. Calcult in the mentals portion schools of a fund of the state of the stat

In cases of protestic calcult associated with prostatic hypertrophy the calrul are found shoot invariably outside the hypertrophical balos, generally to the fibrous required of the lobe and separate from the non-hypertrophical prossists; fissue around at Josep believes that the calcult form in the addit of ducts of the normal prostatel; times that is below compressed just outside the growing admissianlobe. He states that such stones are removed below by the permead rovin. Carron D. Houssa, M. D.

Gerden-Taylor G. Multiple Fibronists of the Tunica Vaginalia. Bril J Urel. 914, 5 220

The case reported was that of a main forty repears of ps who consolired the anither because of a firm, paniless weeking of an impariently described left testade. There was a hastey of hiptry. Fost years after receiving the superv the patent consolired anitory repeating to effect. Ten years lister, less he was thurty-to. Years of age, he was passed as for the army sithough the sweetling less described hars. At the age of levty-two he presented hasteful for life insurance, but was realized in the continue of a Account physician regardled that condition as analysis of the condition of the condition as

There was no history of vesteral disease and the Wassermana reaction was negative. The diagnoss of a scalignant growth of as undescended testick was made and operation advased. At the present turns, more than ten years after the operation, the patient is in perfect health.

The pathological report shows that the texts and traces we prained formed a firm mass measuring, in 136 by 1 m. On access, the parietal layer of the tunica was found to be greatly theckness by grayat fibrors instee measuring \$\fo\$ in it is thickness part. The hance mixture or do both layers aboved awrent pechanicalted therous accolute up to \$\fo\$ in it does not refer The body of the texts appeared measured from through the texts appeared measured the first from through the account is commet of decoming the text of th

fibrous tissue. These findings suggested a longstanding chronic inflammation of the tunica vag-

The author therefore diagnosed the condition as multiple fibromata of the tunica vaginalis, a benign lesion. This diagnosis could be made only by microscopic examination of the removed organ.

ELMER HESS, M D

#### MISCELLANEOUS

Decker, P Urinary Colibacillosis (Colibacillose urinaire) Rev med de la Suisse Rom, 1934, p. 1063

After forty years of study it still remains to be determined whether infection of the urinary tract takes place by the ascending or the hæmatogenous route.

The theory that pyelitis is a hæmatogenous infection dates from the work of Albarran in 1889. In 1894, Escherich concluded that the infection was ascending because of the greater frequency of pyelonephritis in female infants than in male infants, but in 1905 Cathala claimed that he had demonstrated the intermediate stage of the hæmatogenous mode of invasion by means of blood cultures

In the course of subsequent studies no investigator has demonstrated with certainty that a septicamic state precedes the infection of the urinary tract. In the majority of cases the urinary infection is present first and the blood invasion appears to be secondary

According to the evidence obtained from blood cultures, the work of Heitz-Boyer represents no advance over that of Cathala in 1905. Of the other proofs of a silent blood invasion, cures of collbacilinia by treatment of the intestine seem most important, but in the author's opinion the cases cited are not convincing

With regard to the evidence offered by intermittent bacillums in patients suffering from intestinal stasis due to various causes, the author's studies are essentially negative. Of 200 such patients, only 6 presented a bacillum which could not be accounted for by the presence of a focus of infection

Decker maintains that the metastasis of infection from a focus in the tissues and the metastasis of infection from the intestinal lumen are not at all analogous, and to date there is no convincing evidence, either direct or indirect, that the latter occurs Besides ascending the urinary tract, the infection might spread by the lymphatic route quite as well as by the hæmatogenous route.

The treatment of colon bacillus infections of the urinary tract is discussed in detail. Of the long used standard procedures—the administration of antisepties by mouth, treatment to change the composition of the urine, disinfection by the direct introduction of antiseptics into the urinary tract, and immunological methods, the author seems to have confidence in only the first three. He regards Besredka's antivirus and the bacteriophage as of doubtful value.

Albert F Degroat, M D

activity Moreover its blood supply is inadequate lience, the alightest vasconotor disturbance may send to necross, particularly during the age of

This theory agrees with the general view that irauma is t be ruled out as the direct cause of the condition. However there is probably also involved an individual predisposition, the result of percent an interesting processors are result to precede which ing care consequences at the curae or commentum which in this early period has remained latent or has healed, leaving the bone in a markedly weakened condition REMARD E. SORKA, M.D.

Koch, S. I., Dissbillties of the Hand, J Am M

Koch says that hen once joint firstion has taken place, some form of active treatment must be under saken to permit movement. Four methods are availtain to permit and privated therapy (s) manip. niation, (5) extra-articula operations, and (4) intra

If a beolute firstion at the joints has not occurred, considerable improvement can often be obtained by splinting and jediclously applied physical therapy spanning and processing appared payment towards.

In the application of spants the a thor prefers the use of clastic tension maintained for six, eight, or ten bours of the twenty four The tensor should be released a hen t begins to cause pun Spirits should tenant want confirm to cally applied to the hand

ne exact results ill be obtained if, in the beginning of the treatment, the spirit can be completely renored to permit the me of contrast boths, the

application of heat, and active and passive movement alternately with the pplication of tension The attempt to secure coverment in attif fearts by maripulation mader angerthesis has often resulted na increased strings rather than merceased mobility

Manipulation is of value in cases to which adde anapparatus or varies in cases is worse after soons have not completely prevented movement. The part should be moved to the affected soon once or t fee through its complete range of morion If the hand and forearm are then numobilized for it use many four hours and active and peasure movement is begun prompel afterward, definits improvement in function can be obtained

In 1930 Shaw emphasized that if the fingers are in 1920 ones curposasses was a use angue as-lept immobilized in extension, shortening of the app immensured to careauch advicting or the collateral hammests of the metacaspopulations and interphalangeal joints occurs and that this aborton ing constitutes an important factor in the stiffness ing to account of the control of the extended fingers and their remains of more ments of fexion. If above ed, furthermore that if ments or means are carefull detached from their origin on the head of the metacarpal bone a definite degree of restoration of flexion can be obtained and this can be preserved by the kelp of sphatter and ms can be preserved by one seep or speaking and physical therapy. The author states that he has obtained excellent results by Sha operation in

Firstion of the fingers in flexion at the inter phangeal joints is usuall complicated by fercion

contracture of the supersicial theses and fination of the figure tendons by sort thems due to the original Injury Contraction of the joint capanie and the accessory harmonts also plays an important part is

The author credits Salver with complexiting the important type biased by contraction of the load capsule in this type of contractors and describing as calculate in this type of treatment subperforted sepaenergy mensor or treatment superiorem sep-ration of the joint capacia, usually on the side of the convex or condular argment of the joint.

And the condition of the procedure in the cases and considers it definitely superior to violent reptain of the cubants physical quantities in assemi inhance or proposed in personnel solutions to assemi inhance or asseminable in personnel solutions. cases with shortening of the collateral hymnesis. recurrence of the ferron deformity will take place endess the proximal attachment is divided or freed In the treatment of joints which have become

anky losed as the result of infection or injury some form of lotra articular operation is accessely The author emphasizes several details which are of importance in attempts to accers movement at the arist Joint in cases of bony losion There are (a) exposure of the joint by two lateral horizon. one on the racial and one on the ultrar side, to give adequate access to the entire joint area. Ith salving traction on, and traums to, eriensor tendoss (a) the removal of sufficient bone to insure an adedonte logut shace, a picp at times arears tentant as and port tows of currel pones (3) special arrange tensors of direct sharp arrange tour of the nawly formed joint serfaces so that they rescrible as nearly as possible those of the normal count and (4) the securing of amount home margins

so as to avoid leaving overhanging edges of home which might bacquibons to sea pountion at pose and subsequent saterference with freedom of men While the results from this type of operation kere been far from perfect, definite improvement has been obtained in considerable anniher of cases

Koch beheres that with greater care is operation Anchi reneves that with granter there is secure precedure and more persentent efforts to secure active movements following operation, the results

NORMA C B MOCK MD Goeotz, E. The Diseases of the Intervertebral Joints (Des Edrandessen der Erneckes ubeige-Jointo (De Cristalement at a communication) Arch f orthop Chir 914, 34 133

The author examined appeally th regard to the intervertebral joint large annaber of speed consulty the articular capsules are quite side, the riscular cavities are spaceous, and the mobility of the dissected joint is considerable. However, the conts are securely locked by the ligaments and the arm umon of the ertebral bodies through the later were a many or true or terrest touries enrough the same of the joints in different in different parts of the criebral olumn, ranging from 45 degrees to nearl vertical

When the normal stabilit of the vertebre becomes reduced, draptacements in the vertebral joints occur quickly as the hyamentum flavers has tendency to compress the individual vertebra

against each other. As the capsular ligaments are unusually tight, their incomplete division when the joint is opened is more apt to be followed by the breaking off of an articular process than by rupture of the capsular joint. The articular surfaces consist of smooth, hyaline articular cartilage which in certain vertebre may vary in size on the two sides. The thickness of the cartilage presents considerable variations even under normal conditions.

As a rule no pathological deviations are to be observed up to the age of thirty years. Thereafter, changes which are sometimes marked become continuously more frequent. These consist of progressive destruction up to complete bony rigidity. In the mildest grades there is a definite dryness of the articular cartilage due to absence of fluid in the joint. Defects and proliferations are still absent in this stage.

In contrast are the changes in which there is an increase of fluid in the joint and the cartilage appears swollen. Not infrequently there is a partial vellow.

discoloration of the cartilage

From these initial changes arise all transitions to complete destruction of the articular cartilage. In one and the same individual both normal joints and those showing the most marked changes may be In the cases reviewed no relationship to other diseases of the individual could be demon strated according to the detailed autopsy protocols On the other hand, the changes were entirely differ ent from those occurring in early spondylarthritis The most severe changes were anky lopoietica found especially often in the thoracic portion of the vertebral column and occurred predominantly on the right side. In the author's opinion this is explained largely by the fact that the third to the fifth thoracic vertebre show the least mobility

A relationship of diseases of the vertebral joints to changes in the intervertebral disks could not be demonstrated. Neither was it possible to demonstrate a definite relationship to existing kyphoses or

compensatory lumbar lordosis

On the other hand, 8 scoloses examined showed striking unilateral changes in the vertebral joints on the concave side, 2 showed unilateral changes on the convex side, and 1 showed bilateral changes. In spite of the relatively small amount of material, the author suggests that in certain types of scolosis the cause is unilateral disease of the small vertebral joints.

A review of the macerated specimens showed that in spondylitis at the site of the gibbus the small joints were completely analylosed and the neighboring joints presented marginal exostoses. In cases of fracture the changes in the small vertebral joints paralleled those in the vertebral bodies. On the other hand, in cases of even severe spondylarthritis deformans the small vertebral bodies showed no striking changes. In Bechteren's disease, of which the author had the opportunity to examine a fresh case, there is no degenerative reaction but a typical arthritis with round cell infiltration, hyperæmia,

connective tissue proliferations, and ultimate healing by ossification. Not rarely, other joints show a polyarthritis ankylopoietica of the Ziegler type.

In conclusion the author calls attention to the disease picture of pseudo spondylolisthesis described by Junghans. In this condition also the intervertebral joints at the site of involvement exhibit marked changes. (Decs) I outs Nelwelt, M D

Zadek, I Congenital Coxa Vara Arch Surg, 1035, 30 62

Zadek reviews the history of congenital cova vara and the various theories regarding it back as far as the theory advanced by Fiorani in 1881. He states that the cause of the condition is unknown and the microscopic picture is not characteristic. In the examination of a removed section including portions of the articular cartilage and the neck of the femur he found degenerative changes in the deeper layers of the cartilage with areas suggestive of mucinous degeneration and tiny intracartilaginous cysts formed apparently as the result of liquefaction of the cartilage. The subchondral bone was compact, there being widespread subchondral osteo sclerosis which extended through the entire capital epiphysis

The striking signs of the condition in childhood are deformity and a painless limp. The gait may easily be confused with that of congenital dislocation of the hip, but the roentgen appearance is pathognomonic. The obvious change is a depression of the neck of the femur. Closer examination suggests a loss of substance in the neck which, to the inexperienced, may suggest a fracture with non-union. The greater trochanter is elevated, and in the older cases becomes much elongated and assumes a "beaked"

appearance

In the author's opinion the treatment should in clude drilling of the neck of the femur to open up a new blood supply and thereby stimulate ossification Either at the same time or later a wedge osteotomy of the subtrochanteric type should be done to correct the angle of the neck

Ten successfully treated cases are reported ROBERT C LONERGIN, M D

Logròscino, D Tuberculosis of the Neck of the Femur (La tuberculosi del collo del femore)
Chir d organi di mozimento, 1034, 19 295

The author classifies tuberculous lesions of the neck of the femur on the basis of the local arterial supply and distinguishes four main foci of infection

Foci derived from the inferior cervicodiaphyseal arch include those which are located immediately above the lesser trochanter and extend a few centimeters below the extreme limit of the inferior cervical arch. These foci probably arise from emboli which have been caught in the initial course of the vessel. This lesion occurs most frequently and its clinical course is apt to be severe.

Roentgenologically the bone has an evanescent appearance and the lesion assumes a semilunar

# SURGERY OF THE BONES JOINTS MUSCLES TENDONS

Young, A. C., and MacMahon, H. E. Chronic Des. A. La and Alexandron, in a Company Profilers the Arthritis in Patients with Rhose remembers of the following state of the first Say 1915, 7 1

The relationship between acute rheumatic poly arthritis and chronic producerative arthritis has long actuates and curous promurature artimum are seen a subject of conflowersy Gloco Heberden Ia uega a samper or communerary more recurrence in 158 and Hayparth in 803 first differentiated acute 170 and marketto in our universalities were theories from chronic rheumatism, chiacking chronic rheumatism, chiacking tocome and to the schools those who here teen creating into its moores—take who believe that the two conditions are chilirly separate sensore that the two considerables are country separation and those who consider them different manifests tions of the same process.

The author manuals that there is no justifiable reason, child of pathological, for the adoption of rement, current or parisonogenes, are the scarpions of each extreme viewpoints. Each combition may such extreme viewpeants carry consumes one occur alone and absolutely independently of the other where as a certain case that some t be a octace water as a territoria cases tone section to be a classified and a section of the section conditions

The uthors summarise ten of thirty collected cases and report two cases In creey case the condition began as acete

As every tase on common separa as access
theumstic polyarthrits and, as a bossume chrome, trophic changes developed in the joints The are at the time of the first fract ranged from ment to forty-five years and the duration of the arthrites from mr months to twenty is year OX the ten patients whose cases are summerfied,

mane had mitral stemests when they were admitted to the hospital The fenth was treated shortly to the possess and recovered whous arrer the onset of the discusse and recovered Moone sugaring valvalar damage.

And from the cardiac findings, there ere no

changed signs or symptoms to distinguish the condicumus agas se symptoms to unitaginae the unitaginal from scurie of chronic (non rheumatic) infec tions or rheumatoid artistitis The roemigenographic and laboratory findings were of ou value in the

Investigators studying theumane fever have at Anyelegators securing memor ractions outerent unite observed various transc reactions— namely large subcutaneous accides, microscopic bodules of the myocardium and loose (assue about the joints problem try changes of the codocardum of the synoya and leaons of blood yearch. Inch or the symmetric and schools or more vesselves not they have regarded as characteristic of if not specific for, rheums lie infection

Fahr maintains that Aschoff' horiule is a specific product characteristic of the disease, and that its paramote alone is sufficient to the casoner, and that his paramote alone is sufficient to justify the diagnosis of

In the cases presented by the authors the occur ence of the joint disease was so doedy associated with the orner and progress of the rheamatic fewer

as t reader it obvious that the arthrift was part as a tenory it coveres true the strains was per of the rhounside farer. Moreover the foint affected or the incumatic letter accepter the joints ansetted by infections (non-rhousaid) arthritia

In coordision the authors state that the differen-In concursos the authors must use the concustifation between cases of rheumatic fever with poly arthrife manieriation and chronic proliferitive arthrife (non-rheumatic) is a problem for the chinician In the light of present knowledge, the cardiac findings are the circl determining factors History and a trace from know that have remembers away or trace from some that are definitely healed or have become chronic and progreater offers hitle or no aid, and in case shown the characteristic subcutancess or subcutances nodnies a diferential diagnosis has not been proved

## Swain, L.T. Octhopadic and Physical Therapevile Transmitted Chronic Arthritis J.Au. H.

The orthopodic treatment of chronic arthrete should be began at the very onset of the arthrith

and curried out in close relationship to the nesteral There are three objectives in the treatment of choose are times superure in the stranger of the choose artistills (1) to control and stop the

directes ( ) to prevent deformity and (i) to restore the partient to his normal life as functionally capable Arthritis is always constitutional disease The

contradiantee from a configuration of the set of the circulation are deturbed, the yearmotor control is anniable, the blood because is low the paral matepolic rat is often premare to any the passal mensioner can be supported and the function of the gastro-latested tract is defective. There is all aye name in Not infrequently correction of posters by Prisonate corrective sterring transcription or possession of prisonate or prisonate yearman currency extreme, i.e., and territories positions ill remedy many of the functional physiological failure. The treatment of every case paramagness sessions with rest positions in head The author describes the various rest positions that may he med

ay in once While the patient is in bed heat may be point by hot air bales, steam balls, disthoray mineral uradistion, or sun lamp

Efforts to prevent deform the should be instituted early in the chaese Almost every deformly he articlin is ferron deformity. The utbor advises the use of supporting plaster spirits for periods of the one of supporting paster spirit for person of not more than forty-eight hours. In his case the platter such as hearbest and the joint is more little such day. Gradually the time of energies is ntus sacs may transmit the unit of the period of rest shortened

necessor and the person or real successor.

Deformities that have already occurred may be corrected by various methods. Joints that have begun to flex can often be strughtened by plaster spints re applied every day or two or by the use of corrective splints such as the Thomas caliper splint for the knee, banjo splints for the hand, cock-up splints for the wrist, and the airplane splint for the shoulder. In cases in which correction cannot be obtained by such means, manipulation of the joints may be done under anosthesia and, if this fails, by open operation after the process has become quiescent. The results of operation are improved by a month or two of pre operative physical therapy and exercise.

NORMAN C. Bullock, M. D.

Rahm, II Predisposition in Osteochondritis Dissecans of the Capitelium Humeri (Zur Frage der Disposition bei der Osteochondritis dissecans Capituli humeri) Zentralbl f Chir, 1934, p. 2263

Trauma is coming to be regarded more and more as playing only an occasional rôle in the development of osteochondritis dissecans. Recently Nielsen attempted to determine the importance of heredity in this disease. According to his large series of investigations the general incidence of the condition is 4 i per cent, whereas the follow up of 191 un selected relatives of patients suffering from the condition revealed an incidence 4 times as high. There fore this disease must be included in constitutional

pathology

The author presents the histories and roentgenograms of 4 male members of a family who were affected with osteochondritis dissecans of the capitellum of the humerus. In all of these subjects the condition began at the age of puberty, between the fourteenth and sixteenth years of life. All of the subjects were of the stocky type. Two other males of the family were similarly diseased but could not be examined The fact that the disease hegan at the time of puberty, when the condition of the open epiphyseal lines of the skeletal portions forming the elhow joint undergoes transition into that of synostosis, suggests that the cause is a defect in this proc ess due to a constitutional-endocrine factor Hereditary constitutional factors are undoubtedly of fundamental importance

The first of the cases reported was that of a farmer twenty-five years of age who had heen unable to extend his elbow since his fifteenth year. He was of the short, stocky type with powerful muscles. The hlood picture was normal. The blood helonged to Group of The roentgenograms showed a severely deforming osteo-arthritis in hoth elhows involving especially the capitellum of the humerus hut also

the capitellum of the radius and the ulna

The second case was that of brother of the first
patient who was seven years older than the latter
The patient stated that the condition began when be
was fourteen years old He was of a stocky type like
his brother He had a high changing voice His
blood belonged to Group o The clinical and roentgen findings in both elbows were similar to those in

the first case

The third case was that of an uncle (brother of the mother) of the two other patients. This patient was forty eight years old, 154 cm high, and of athletic build. His blood belonged to Group o. The disease began in the right elbow in the sixteenth year of life. The changes in both joints were similar to those in Cases 1 and 2.

The fourth case was that of the son of the third patient, who was thirteen years, 140 cm high, and of the same body build as his father. There was limitation of motion in both elbow joints. Roentgen examination showed closure of the epiphyseal line of the right humerus, distinct osteitis at the typical site in the capitellum of the humerus, subchondral clear areas, and beginning changes in the capitellum of the radius. In the left arm the epiphyses were still distinct and no pathological changes were as yet demonstrable.

(WORTHANN) LOUIS NEUWELT, M D

Molio, L. Necrosis of the Semilunnr Bone of the Wrist (La necrosi dell'osso semilunare del carpo)

Chir d organi di movimento, 1034, 19 343

The author reports a case of kienboeck's disease in a nineteen-vear-old girl who was unable to recall any trauma to the wrist. After removal of the bone and a period of immobilization, recovery resulted uneventfully and function was completely restored. Bacteriological cultures were negative.

On microscopic examination of the bone the deeper and more diffuse lesions were found to involve the central portions, in which most of the trabeculae were atrophic, often fragmented, and arranged in a disorderly fashion with complete obliteration of the

lamellar structure

Osteocytes were practically absent in this area whereas they seemed to be rather well preserved at the periphery. The articular cartilage was interrupted in some places, particularly where the bone

had undergone retrogressive changes

The most important changes involved the bone marrow. Among these were connective tissue prohiferation with subsequent sclerosis and a tendency toward osseous metaplasia. In other portions there was a homogeneous substance which assumed the form of blocks or granules of a brownish-yellow color suggesting the deposition of hemosiderin. This deposition of pigment was found also in the region between bone and cartilage. No inflammatory or vascular changes were observed.

Taken as a whole, the lesions consisted of necrotic areas of the central portion of the bone which in all probability were the result of some kind of circulatory disturbance. This assumption appears plausible because of the deposition of blood pigment in the medullary areas although there was no histological evidence to support it. The cartilaginous erosions were probably secondary to the central necrosis

With regard to the pathogenesis of the condition, the author states that the semilunar bone is exposed to considerable physiological strain augmented hy repeated traumatism resulting from ordinary manual

activity Moreover its blood supply is inadequate. Hence, the slightest vaccounter disturbance may

ficake, the augment vancations communicated to necross, participarly during the knowle when the blood demand is increased. This theory agrees with the general view that Ann theory agrees with the gracess were that traums is to be ruled out as the direct cause of the

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Guents, E. The Diseases of the I terrestrical Joints (Die Erlandungen der 2 mckers richten lenie) Arch f orthop Chr. 844, 14 113

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Congenital Coxa Vara 1rc/ Surg, 1935

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The striking signs of the condition in childhood are deformity and a painless limp. The gait may easily be confused with that of congenital dislocation of the hip, but the roentgen appearance is pathognomonic The obvious change is a depression of the nonic the obvious change is a depression of the nock of the femur Closer examination suggests a loss of substance in the neck which, to the inexperi enced, may suggest a fracture with non union The greater troclianter is elevated, and in the older cases becomes much clongated and assumes a "beaked"

In the author's opinion the treatment should in clude drilling of the neck of the femur to open up a new blood supply and thereby stimulate ossification Either at the same time or later a wedge osteotomy of the subtrochanteric type should be done to correct Ten successfully treated cases are reported

ROBERT C LONERGAN, M D Logroscino, D Femur (La tuberculosis of the Neck of the Tuberculosis of the Neck of the Chir d organi di movimento, 1934, 19 295

The author classifies tuberculous lesions of the neck of the femur on the basis of the local arterial

supply and distinguishes four main foci of infection For denved from the infenor cervicodiaphyseal arch include those which are located immediately above the lesser trochanter and extend a few centi meters below the extreme limit of the infenor cer-Vical arch These for probably arise from emboli which have been caught in the initial course of the vessel. This lesion occurs most frequently and its chinical course is apt to be severe

Roentgenologically the bone has an evanescent appearance and the lesion assumes a semilunar

shape As the process approaches the bony covice, already and decadefication of the units from INTERNATIONAL ABSTRACT OF SURGERY

anopay and personneed with a resulting reduction occome more pronounced with a remains reduction in length and thickness. The formation of a sequenin length and thickness. The formation of a sequen-tium or pectosis is visible long before a line of demarcation has formed marcatana nas tormen The adjacent synorial membrane is at first little

affected, but later the foint cavity is all of with a affected out meet the sourcestry is most suite a dear yenowar and assertic and a nice subsequently becomes purified a service and a nice subsequently of

one.
Foci in justaposition to the epiphysis are derived food in Justia position to the employees are derived from the superior convicodisphysical arch. The from the superior corrections purposes aren. The following three anatomical types, mentioned in following three anatograms types mentioned in descending order of frequency can be differently ted second order or inspectory can be differentiated by Fort of the pour of the neck, which we in the

For of the spar of the nort, when he is the territory supplied by the inferior certical each concluded and food of the intermediat tract of the next) which in the unter nermal arteriole supplied by an independent and isrammal arteriole

transau arteriose

3. Foci of the supero-external tract which are in A. Ford of the supero-external tract which are in feet territory supplied by the corresponding actor. Ford in Particular Artistics are the particular actors are extended to the corresponding actors are extended to the corresponding actors are extended to the corresponding actors are consistent to the corresponding actors are populorationaginal premiantine which automatical temporation other anatomical types. As the coult of the arting of circulating testing or distributed of circulating testing or distributed of circulating testing of circulating testing of circulating testing and circulating testing testi the action or circuscus throat or consumers to the circustion the nicevening circustions plate becomes necrotic bettome bettome the same vocy squares of Bulliagness physical fod occupy a territory which is a constant to the same of the second of the seco The entire body agreem in

nanconcessorymation occupy a termory when in supplied by the treated beaches of the spooriel reaches of the spooriel Connectation of this technol was impotentions chara-ments of the constitutions return towns

Contracted on this report of innercinous cases the metaphysis and arrounded by a thick layer of the metaphysis and surrounded by a tank layer of one coup healthy time. They prime chronic course and may make a considerably in the complete the lesson is relatively benign and neually re

The bears a secretary remain are means to Aletaphyson sourcements for are secured under the cardinginous plate of the greater traminer the carmagnam parts of the greater tro-chanter and if the limits between the metaphysis chanter and the county between the extrapolytes and dasphysis. They are semi-spherical and mainly and displaying the attention correct on France toward toe superior cervical co there invade the cardiage and rarely invade the

some cases the carrilage becomes necrotic None cases the critically occurred neurosic, the nucleus of the greater trochaster is destroyed, and fistale develops in the glutael region As a role this type of leason is being a and remains catra-articular

The ricce contains many very featurective illus trations

Legargian, E. A. The Dissiposis of Members in Drives by A. throws pays One Pray described increase we Minathum-Day One Pray described play) des devery Some One Section Authorize One Section of Section (Section 2018).

Following review of the development of ment description of the joints and description of the

different opaque substances employed for the par different opaque substances employed for the percent solution of perabrodil

cent southon of persistent and by a margin strength of this openion substance and by a margin strength of the substance and by a margin of the substance and substance are in the substance case. It memoral manner in Concernly uncertain center at was possible and to make a originary or the type and extent of the damage which was subsequently and catent of the findings of arthrofosy

for good results it is very important to make the for floor remarks it is very important to make the montenagement and the knee m an apparaum than a different parts of the mention can be obtained.

Takeshen singled spo the effect of the observed Lagergren amount and the energ of the opaque plantages on the foint Reform and after the opaque thou of the obedies amparance pe made a chapabolic tipos of the obedies amparance per made and man inches against the made and an inches against the made at the made case to the synorial find and determined its examination or the synonymeans and neuronization of albertia. After the meeting he deter content or athermia After the a man a bled operation as as performed in early four hour to a new operation was believed in early sort nous

fationing to monters examination in record of the or pane for microscopic study.

On the least of a number of easy which is then be discussed the interpretation of the rocations he discussed the interpretation of the reculpro-frant, emphasizing periodicity the difference in proper force of the lateral numbers. This peri description is a substitution of the periodicity of the state of the lateral numbers. This peri drawing.

# Colonius, F. C. Compared and Foundary Annual Last There Cales Treeted by Massive Rose Grazie, J. Am. M. and J. Dis., co. 202

Congressial pseudarthrous ma rather rare type of tracture. It is not poster, tracture that the to mits, but a participated conclude in a lone or amic, but a pathological concluse in a none of the policy causing weakons and subsequent fraction if a policy control of the policy of the pol

ag chowing cases are congruent and in which the used anterior deforming the present stillne want the transfer and an executive operating a present sur-out fraction, () those presenting the Opical pseud-arthrons, and () those a th more or keep loss of arratosa, and O) takes a in more or are see to bony substance accompanied by marked deferrably cay mionance activities of fracture definite changes Actors the occurrence of tracture occurre cases, that he observed in the bono. In this early phase

there is anterior current of the leg. When fraction control in animals curving or the sea in one incited occurs, the deformity a highly to be increased. The most common type of case is one in which cocumen is an arrange opening an arrange opening as a case is one in which cocument is an arrange opening and arrange opening arrange opening and arrange opening arr beautriques a bicacit is post poses up communication of the contract of the co activative against determine only the lower than of the actorizate angular concernity of the sower turn of the The Walsermann Fraction and the factings of

chemical study of the blood te actains Following review of the vanous theories as to the condition, the thor expresses the of course to the course is primarily local H green

th Codyribe and Henderson that the beac factor are probably faulty carby one development and constant interference the the circulation Colonia reports three cases in which missive to two

pose grating are done in socially post areas

The article is concluded with the following sum-

r Congenital pseudarthrosis has been rarely re

ported in the American literature

2 Congenital pseudarthrosis of the leg appears to be due to a local rather than a general cause, and to occur usually in the lower third of the leg

3 Before the occurrence of fracture the bone or bones involved present the characteristic rountgeno graphic appearance of a cystic formation somewhat resembling localized osteits fibrosa cystica. The deformity is present at birth. I racture occurs either at or shortly after birth, and hardly ever heals spontaneously.

4 Operative treatment is not indicated before the age of eight years. The chances for successful results from operation increase with the age of the patient

5 The method of choice is the massive bone grafting technique employed in the three cases reported

## SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Hans, S. L. The Treatment of Permanent Paralysis of the Deltold Muscle J. im. M. Ass. 1035, 104

Permanent paralysis of the deltoid muscle causes a disabling deformity of the arm with resulting loss of the power of abduction. When conservative treatment for a year has failed, there still remains the possibility that function may be restored to The author some degree by surgical treatment reviews and comments on the several procedures which have been advocated, including arthrodesis and muscle transplantation and reviews the factors which must be taken into consideration in the choice of operation. He emphasizes that in muscle transplantation the muscle to be transplanted must be strong enough to carry out the function of the muscle for which it is to be substituted. He believes that the muscle most satisfactory for transplantation is the trapezius

llaas reviews thirty two cases of deltoid paralysis treated by muscle transplantation. In more than half of a series of thirty in which a trapezius fascia transposition was done a satisfactory functional result was obtained. The stronger the transposed muscle and accessory muscle the better was the result.

The operative technique used by Haas in his earlier cases is described as follows

An incision beginning well out on the spine of the scapula is made along the spine to the acromion process and then to the outer third of the clavicle. The insertion of the trapezius is freed from the spine of the scapula and clavicle, with care to avoid including the supraspinatus muscle. The trapezius is then mobilized so that it forms a tongue-like mass, care being taken to protect its main nerve and blood supply. A sufficiently long and wide strip of fascia lata removed from the thigh is then sutured

to the raised up trapezius muscle with heavy braided silk. A ditch is cut out of the spine of the scapula just back of the acromion process and the free end of the fascia lata is passed through this ditch and over the apex of the shoulder in the subcutaneous fat to an incision made over the lower part of the paralyzed deltoid muscle. Through this second incision a rectangular piece of bone is removed from the humerus near the deltoid eminence through the second incision and the free end of the fascia is brought down to, and passed through, this opening in the cortex and sutured to the surrounding periosteum.

The results following this type of operation were at first quite good, but after a time there was a decrease in the range of motion. It was found that where the fascin passed through the ditch prepared in the acromion process it often became adherent to the bone. When this occurred it was necessary to re-operate to free the fascial strip and surround it with a free fat graft. The re-operations demonstrated that direct union occurs between fascia and muscle and the Inscia lata assumes a tendonlike appearance. In the author's more recent operations the formation of the ditch in the spine of the scapula has been omitted. The fascia is now brought over the acromion process as a flat band and anchored in several places to the deltoid muscle or passed under the perimisium. The distal end is then passed under an elevated spicule of bone near the deltoid eminence and sutured to the sur rounding periosteum. The low insertion is of considerable advantage because of the added leverage obtained on the humerus

It was found also that after the muscle fascia operation, the results of which were at first quite satisfactory, a considerable loss of power occurred later because of a shift of the fascia transplant. The cause of the shift in the line of pull was usually a luxation of the humerus from the glenoid fossa A careful check of the more recent cases showed that there is often an associated luxition of the shoulder in paralysis of the deltoid. This is not surprising as the strong deltoid muscle capping the shoulder joint belps to maintain the humerus in its normal apposition to the glenoid. If there has been a lack of adequate protection by a brace there is further stretching of the capsule which predisposes to dis location Haas calls attention to the fact that an abduction brace, when applied so as to hold the arm in the frontal plane of the body, has the pernicious effect of forcing the head of the humerus out of the glenoid cavity Therefore, in conservative treatment with braces or plaster and for protection after operation it is important to see that the arm is directed a little anteriorly to the frontal plane of the body. When such a luxation is already present, it should be treated either before or at the time of the muscle operation The Kiliam-Nicola, Hender son, and Kirchner-Fowler types of operation are adaptable to the paralytic type of dislocation The Kiliam-Nicola operation has been found best as it

is relatively easy to perform and can be done at the same time as the muscle facts operation

Before the fascia transplant is anchored to the humeres the long head of the bloops is exposed by disserting through the atrophled deltold mescle. In dislocations to the medial side a modification of the Afhent Vicola operation is used, the biceps tendon being cut in the and the proclassi portion passed through the humarus medial to the greater tuberosity and in lateral or posterior displacements it is passed lateral to the tuberosity. In this way corrective pull is obtained on the head of the fra merus toward the glesoid cavity. Correction of the dislocation of the shoulder joint improves function as the fuxation changes the hos of pull and presents strong fixation of the bend in the glenord. The unportance of fixation of the bead of the A merus has been emphasized by Mayer who showed that the first on degrees of motion after a trapersus faucla transference is a fixed rotation of the humerus and scapula. Any subscapent abduction is a free motion between the scapuls and huserus due to the pull f the biorps, corecobrachude, or pectoralis major Tala is the reverse of the normal movement of the upper extremity in abduction. In some cases the mechanism of motion after the operation is found to

be similar ( the sourmed movements of solutions in a semble of the cases reported by the settler only partial result could be expected at most as there was set settlement mention on an arthropism. Of the settlement of the settle

MORRET C LONGSON, M.D.

Todd, A. H. The Treatment of Per Caron. Free Rej. Sec. Med. Lond., 234, 38. 7

The alder methods of treating per cavits often fail because they are based only on an it tempt is correct the defonantly. E. en. hen correction of the deformity is accomplaised the underlying cause is not corrected and recurrence develops. In the ordinary, idioquilible, typo of per caves the deformity is

disciplible type of per carms the determity as satirity in this foorbook. It consists of whosping down of the forefoot. There as no paralyses of the innificación claterosences remindes. The inter play only a pressive part. This is evident from the fact, that when the forefront or anterior arth is possible up the toes drep down into normal position salesses soft-part contractures have coursed. Fix carms is sort due to a shortening of the tendo arthing. Softening as eccentricians the course of the contraction of the contraction

Todd's treatment of per caves consults a complete correction of the deformity and strengthening of the long extensor group of muscles to prevent recurrence. First, the deformity is corrected by lengthering and fattraining the joint capualty facus, and tendons absection on the laner side of the form in addition. Sciendary's extent of all streams interface to the on cutch as done as this allows the entire foot to changite. The foot is then vigorously manipulated. In the second part of the operation the extinuous tendons are transplanted through lader borred in the nether of the first, third, and fifth metatared bones and neutral farmly with the feet hand to tarned bones and neutral farmly with the second and as a over-corrected position. In cases with nourse then of the soft parts of the tone, arthropies of the proximal lineraphalanceal joints in done and, are accessary the deformed fifth to is amputated.

This operation is usuall best performed when he patient in between sixteen and eighteen peer of age, but if the deformity is so marked that this paster enliness are forward it about he does outlier. The results are suitfactory and permonent in content inducted in the raise of the operation is content inducted in the raise of the operation is content inducted in the raise of cases of deformation due to polycomposition as the raise peer paralysis of the retirement tendent sender paralysis of the retirement tendent sender.

Commer C Gov. M D

#### PRACTURES AND DESLOCATIONS

Freiberg, A. II.: Congenital Luxation of the Hig-Selection of Cases for Open Reduction. J Seas & Just Sery alls. 7

In reviewing the Instery of the treatment of one printal learning of the high Friedery as a that, it is the property of the property by any closed method could fail, whereas two years have be advocated the closed method, as it is present these was of the outstanding proposess of closed management from a Pull's Sociesality results of these conditions. All issues of congenital dislocations of the key may be channeled as of the following a groups: () those as which closed relations and doubtless be thempted, (a) those as which the winshipty of even it implied, closed relations and debatable and (3) those is which closed relations as debatable and (3) those is which closed relations as obviously out of the operation became of 48.

marked deformity or body struct re-Frasherp between that the techniques of closed reduction has undergoos very decided improvement that the chosed nearbod will be successful to good percentage of cases of congestint endocations of the hip in young children and that open operation absolute be reserved for the cases of young decided in which attempts at force of chosen of the state of the control of the case of young decided in which attempts at force of chosen of the state of the control of the case of young decided in a cold result today of closed reduction accumulate as not result today of closed reduction accumulate as the literature, reports of attention of the state as the literature, reports of attention of the state of the reduction will doubless appear but that the neight be said of open operation if it were performed routand on young children.

In conclusion he arys that he looks upon shifted effort at closed reduction as an indispensable preliminary to the recommission of open openion Open operation has a place as a method of reduction for congenital dislocation of the hip, but should not be regarded as a substitute for closed manipulation PAUL C. COLONNA, M.D.

Compere, E. L., and Phemister, D. B. The Tiblal Peg Shelf in Congenital Dislocation of the Hip J. Bone & Joint Surg., 1935, 17 60

A shelf-forming operation is indicated in congenital dislocation of the hip when open reduction is accomplished and the acetabulum is too shallow, when, in older cases, the femoral head cannot be reduced, when, with usage, after closed reduction, the acetabulum proves to be inadequate, and when, in cases of congenitally inadequate acetabulum, the

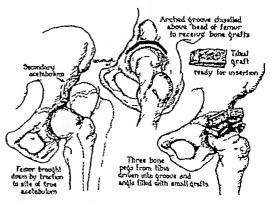
hip becomes painful during adult life

This type of procedure with various modifications has given fairly satisfactory results. Its advantages are the ease and simplicity of performance of the operation. However, it has certain disadvantages. One is that the shelf may not be turned down sufficiently low. Another, that the reflected bone is sometimes unstable in its new position. A third, that postoperative muscle contraction tends to displace the femur upward, especially if it has been pulled down and if complete reduction has not been accomplished.

To obviate these disadvantages the authors formed a tibial bone-peg shelf in fourteen cases of congenitally dislocated or inadequate hips and five cases of pathological dislocations resulting from

pyogenic coxitis

While the number of cases is small and in most of them the time since the operation is too short for determination of the end results, the authors state that in cases treated by this operation the shelf formed is more firmly anchored and heavier than the shelf made from the ilium, weight extension and



Diagrammatic illustration of the tibial peg shelf oper ation

pin or wire fixation of the femur to the cast are not necessary, and the periods of immobilization and confinement to bed are materially shortened Subsequent upward displacement of the shelf has never occurred

The range of motion has not been all that could be desired, but, on the average, has been about as great as that obtained after the formation of an iliac shelf

Disadvantages of the operation are that it is a more formidable procedure than the formation of an iliac shelf and requires two incisions. However, if one operating team removes the grafts while another exposes the hip, reduces the dislocation, and prepares the field, the time is reduced to approximately that required for the construction of an iliac shelf and there is little shock.

NORMAN C BULLOCK, M.D.

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

Schumacher R. Acteriorences Anastornosas (Zer Activities of Acceptance Americanos (22
Legazie der attriviesones Assatoscom) Auto

Ordinarily an aftery becomes less in the capillary columnity an artest occume was in the capturery and the the rela originates. In the occupied attout which the blood pressure is almost comcapturery has success the process of the particle conpecay say and in the vens it occurs to the minimum. At very definite cites there occurs a sort minimum. At vary occurse sizes there occurs a said short-directing between the artery of granting, thort-cultanting octation the artery and the vein through now or several anexamptic not the view turnous one or several successfully not the received and the capable of complete donne. The ordinary effects to not of complete closure. The ordinary arterial re-not capable of closure. The ordinary arterial re-not of their vascularly extra with maximal contraction of their vascularly extra gent networks turn their states of their vascular transfer of or their varcuarry arranged macroscopic conmint are never conteraced compactary prospering certain sites there are arteres which, in addition Corting Mich there are attered which, in autonomy to a ring ormanistrate, possess which, in autonomy to a fine many than the consequence of the co Adaptivinal monovalence and consequently are capable of closure. The long-industry movement are as a reacted in the form of condition-flat movements to the form of condition-flat bundless transfer to the form of combates to the form of the form of combates. a arranged in the form or customers a bundles pro-trading toward the business (numbrical arrany the troung the act the datase tenorates errory me primary manufactures as too argust receives, the downstanting small branches of the thyroid entery pents array many branches or the thyron streety and anatomoric vessels. Accordingly an anatomoric vessel may open and close their to opens, the street of th more years may open and cross When it opens, the blood flow from the artery directly into the the occor non them one array orecall mo the original through the anastomoria which offers less real interiors on an anatomous water once an insistance to it than the capillary act work, and the resistance to it than the capturey actuary, and to corresponding capturey are in completely abstract our of the directions. The Afford theory abstract is the same and break other ways and break other white which is the same and break other other captures. out or the circuscion , he arconst the property is thereby transmitted to the rem and blood richer is control transmission to the very and used necessary in caryon reaches the very librar states occurs, the column of the very librar states occurs, and therefore the very library produced for the very library produc toe comma se succes in the vern can be putted for their by this visa-lergo. It therefore appears

there by this vises targe at tocreace appears evident that the chief factors are create (or and tracent that the time access are circumstay and the extraction making marketing about may check stars a the circumstay for the circumstay and the circumstance of the a the circumston time is inducated also by the afterforeness anatomores, which occur attention for attentiveness anatomises, when occur expected at the most extract points of the body above state outproader most easily as its the body than common and most example of the Arrivans actions. where was companies bong every as in the atm of the finers and fore, especially the chrickers entered they of manuals and both, in the uncies of keytoes or management and better, in the survey or song-carred animals, it the tip of the short, and in cures animals, cline up or the short, and in executive fixing. The helicine arteries of the Penus are CHILING GERRE / OR MOREONE ATTENDE OF THE PERMIS ATTENDED OF THE PER cassage we were attended or a strong space. When these arterior open the cavernoon and creation and creation and creation and creation.

tissue is anumer into the circulation and crection frame. When they close the bood flow int the racing through the capillaines and the crecilla body years turough the carealistics and the carries body a source out on the discount of the source of the found also to internal organization of the source natiomers are ionno and in international organi Ca examination one is impressed by the numerous extinue through sustainments by cos minimates of the cosmologic vessels which show a

Picture differing from that personned by ordinary from the personned by ordinary from the contract of the excellent personnel by the contract of the excellent personnel by the excelle cross-sections of arteries | Intermed is the cooled-hum. F on this oct art them follow averal layers hmm. I on this out and there to me were a series of found of polyhedral cells with steps read and the channel for the series of the channel for the control of the channel for the control of the channel for anatomore years resemble growt using any sort farmerly considered to be such ducts. At the transtion of an array into an american to the transition of an array into an americanote. Trace it is tion or an array into an anaromous year n a son that the spithefold offs constituting the inner acts can continue of the muscle calls of the storial the commission of the inner can of the iteration of the property and the car moved calls with specie that have become pounded of and cate with stated that have become rounced or and depoid of thirth. As the grithested impression or and characteristic of a magnosomic remark, such re-taining the form the strategy and stated or

the state of a service ready from the streeter and may be integrated framely from the common of the walls 1 from grades of cylindrical metaphase of the much cells are demonstrable in different to the cytopolitheside per like activities for the cytopolitheside per like activities and for the cells are problement to only different activities of the cells are problement to the cells are cells are cells are cells are cells are cells are because of the cells are like a cells are personal as these cells have become polyhedral for head of the cells are cells are become polyhedral for head of the cells are cells are become polyhedral for head of the cells are cells are become polyhedral for head of the cells are cells are become polyhedral for head of the cells are cells are become polyhedral for head of the cells are cel of the muscle cells are demonstrable is indirect As these cells have become post-bedra! The fact of as torse cere as a recorn payment a so see of factional importance is then the resets about in the described affecting are capable of charge some executive affective are capable or covery sometimes the lance of the anatomotic result is are

completely closed and anadomoute vener a secondary closed and appellines open. On lafe the of the median secret riesy the median secret tion of the median secral mery the median secral secral secral medians closer immediately without sides of the cripilaries is the vicinity and conclusive to of the exponents to the vicinity and securing on capillaries fill up before the rein [ Qhira hay dependent in the related of the rein [ Qhira hay exceed the related only the related on the related of the related on the related on the related of the related on the related of the related on the related on the related of the related on the related on the related of the related on the related of the related on the related on the related on the related of the related on the related of the related on the related of the related on the relat and the cabaptitis of contra via consecuency nd the capability of country any connectence.

The manner in which closury of the anatomorphism the manner in which course is the cases of the ord occurs as the endertuned occurs to rea to contractability of the epithebold cells in the short

described and the polyhedral share of the cenor m) cooms and the post program analysis that the cent a cil ap by the security tem presents that the cent a cut up by the accum-lation of a fir thereby closing the lance in a section or after thereby closing the inner in a purely passive intersect. Attention about the called to to the frequent occurrence of kinedia bodies no to the prepara occurrence or mancian owns. In the vicinity of arteriorences and nominary Ai to the ricenty or arterioreness annuousses on these are apparently to be required as regulator of blood pressure the localization relationship het are

immediar bother and anastomore may have less The small initiative has a short cut circulation

which differs in different species. In this report tale tacks of shorter are to be depretational. If one group to which belong the redents, the het and
man, the short-cut circulation is located in the repos of the ville The array of the villes drives that in the tib of the Alpina rato ( paracher and the in the up to the vines into a district press of the vites of the v thereby forming a speciologic marken or re-

and the other of which becomes lost in the capillary network of the villus During the fasting state and also at the beginning of the injection only the marginal arch becomes filled, the capillary network remaining empty During digestion, not only the marginal arch but also the capillary network becomes filled In the other species group, that of carmi ora and ungulates, the short cut circulation is located, not in the villi, but in the submucosa Here there are numerous typical arteriovenous anastomoses in the region of venous nests, the "small venous bales" When the anastomoses open, the blood flows into the venous plexus and the mucosa is for the most part excluded from the circulation anastomoses close, the villi are shunted into the circulation Because of these direct communications between the arteries and veins the blood in the When the mesenteric and portal veins is under a relatively high pressure and receives a relatively large amount of oxygen It is evident that there are mechanisms in the intestine which make it possible for sometimes large and sometimes small amounts of blood to pass through It must be borne in mind also that artenovenous anastomoses occur in the mesenters In one instance the author was able to demonstrate them in the cat

(E HEMPEL) LOUIS NEUWELT, M D

Frieh, P, and Levy A Arteriography in Certain Vascular Diseases of the Extremities (Renseignements fournis par l'arténographie dans quelques affections vasculaires des membres) Lyon chir, 1934, 31 660

The studies reported were carned out at the Grange Blanche Hospital, Lyons, on the service of Lenche

The authors state that they adhere to the technique of Dos Santos They employ thorotrast as the contrast medium and have never found it to evert an unfavorable effect The use of the Caldas radio-carrousel makes it possible to follow the me dium from the arteries into the veins and thus obtain a clear picture of the vascular tree in its The application of a tourniquet to slow up the circulation is of aid, especially in exploration of the arteries of the foot

The studies herewith reported were made in twenty-five cases of penpheral vascular disease In all, the information obtained was found to be of value in the determination of the proper treatment Among these cases were sixteen of artentis and four with syndromes suggesting artentis in which a positive diagnosis of artentis could not be made on Clinical examination The former group included seven cases of atheromatous artentis, four of the Buerger type of artentis, two of frostbite, and one case each of diabetic artentis, artentis of rapid evolution, and arteritis of specific origin. The latter group consisted of one case each of scleroderma associated with Raynaud's disease, Volkmann's syndrome, traumatic osteoporosis, and painful

In three cases the contrast medium was injected into the aorta and in one case into the axillary arteri 457 above the clavicle In all of the others it was injected into the brachial artery in the antecubital fossa for study of the vessels of the upper extremity and into the femoral artery below the inguinal hga-

ment for study of the vessels of the lower extremity In a number of cases the clinical symptoms per-

mitted a probable diagnosis of arterial obliteration It is most important to know (1) the exact position and extent of the obliterated portion of a vessel, (2) the condition of the arterial tree in the region of the thrombosed trunk, and (3) the amount of collateral circulation

Certain artenes are suitable for artenectomy and others are not. The former include the external thac and femoral arteries and the latter the pophiteal

Occasionally, in spite of a sufficient collateral circulation, the condition of the entire main trunk is so poor that a high penarterial sympathectomy is to be preferred to resection. The danger of friability of the vessels and of the cutting of a rigid artery by a ligature must be borne in mind

Arteriograph, shows not only the presence but also the nature of vascular occlusion. For example, in the cases of young persons it is difficult to differentiate clinically between an atheromatous conditon of the artenes and Buerger's disease Artenography shows that in atheromatous disease the arteres are abnormally large and rigid and eventually look like a string of beads, whereas in Buerger's disease, the vessels are small and narrow, similar to those of a child. In certain cases of extensive ulceration or gangrenous plaques, artemography shows the arteries to be permeable with the exception of the arteries to be permeable with the exception of the finest terminals. This is the picture in frostbite, in which excellent results are obtained by pen-

In diabetic gangrene the vascular lesions are very variable and their manifestations do not always correspond in site or extent of the obliteration in fact, the arteries are often permeable into the gangrenous tissue On the other hand, there are cases with atypical pain and minimal trophic disturbances in which it is impossible to determine clinically whether the condition is atypical Raynaud's disease or artentis with the Raynaud syndrome of alteritis with the Raymann symmome in these also examination of the peripheral vascular system

Artenography is very valuable in determining where to approach a vessel which has become suddenly occluded by an embolus or is becoming occluded by a thrombus It serves also to differ-

entiate between intense spasm and organic occlusion The authors report one case each of Volkmann's Ischamic paralysis, traumatic osteoporosis, and scleroderma secondary to Raynaud's disease in which arteriography with thorotrast showed the Vascular bed to be open and the condition was alleviated by penartenal sympathectomy

ADRIEN VERBRUGGHEN, M D

#### REGOD; TRANSFURIOR

#### Buggs, R. Spontameous Hamophilla a Report of Elx Cases in Brothers. As J M Sc 1914, 53

The author reports the occurrence of hemophalla.

in six boy of a family in which there were seven boys and one girl As the lifetory of the mother's family through the

fourth generation and partly through the fifth revealed no cases of betoing and as a large number of male relatives studied were free from hemophile, Boggs rejects the theory that the disease wis concelled in the family for several generations and comes to the conclusion that it was either truly spontaneous or explained by Highlitancy.

HOWARD L. ALT M D

Rgi, J.; Blond Transfuctor (Ueber Biotersontolos).

Worst M. g. f. Lepvidensk 954, 95 1053

After a brief review of blend transfruien, the various blend groups, and the small method by carbon and brief groups, and the small method blend-group determination and their desidvantages, the action processia a new method. Starting mon as A or B group, every other blend group can be determined by this method. However the AB and O groups cannot be used for the starting point. The technique is as follows.

One-ball cubic continueter of blood from the are over do of a A or B group persons is centrifugation to obtain the serves. One drop of the blood and is earned a per cent oddinent charles solvation are then mixed in a small test tube. The same perceives is followered in the recipient's across. Two samples are prepared for selectoscopic examination. A loopth of the known serves and unknown for the seal aloopth of the unknown serves and sawn marked and aloopth of the unknown serves and sawn marked and the server of th

i A (B) serum-pulmona erythrocytes-ac aggi tination unknowa serum-A (B) erythrocytesmo aggintination Group A (B)

\* A (B) serum+unknown crythrocytes=aggletunation unknown serum+A (B) crythrocytes=so agglutination Groep AB

3 A (B) serum-tuaknown srythrocytes-me agglutiastion unknown sarum-t A (B) crythrocytes-agglutiastios Group O 4 A (B) serum-tunknown srythrocytes-agglutation enknown serum-t A (B) crythrocytes-agglutation enknown serum-t A (B) crythrocytes-

eggistination Group B (A)
(Eccretives) Paulo Smarso, M D

# SURGICAL TECHNIQUE

# OPERATIVE SURGERY AND TECHNIQUE, POSTOPERATIVE TREATMENT

Pohl, II The Prevention of Pulmonary Complications in Surgery of the Somach Pre-Operative Vaccination (La prévention des compileations pulmonaires en chirurgie gastrique La vaccination preopératoire) Bruxelles méd, 1934, 15 1

The study reported was carried out on the service of Gosset at the Salpetnere, Pans

The author first discusses the relation to postoperative pulmonary complications of such factors as age, sey, previous pulmonary disease, the condition of the heart, arterial tension, lesions of the vagus nerve, the season of the vear, general conditions of sanitation, chilling, anæsthesia, and diminution of the respiratory excursions Exciting causes of such complications following operations for ulcer of the stomach include infection descending from the sinuses, nose, teeth, or tonsils and infection ascending from the area of the peptic ulcer, especially by way of the lymphatics of the diaphragm Following a detailed discussion of the clinical, bio logical, and anatomical manifestations of acute exacerbations of peptic ulcer, Pohl states that opera tions carned out during an acute exacerbation are

likely to be followed by pulmonary complications The symptoms of three types of pulmonary com plications are discussed typical pneumonia, pul

monary congestion, and embolic bronchopneumonia In determining the incidence of pulmonary com plications in non vaccinated patients operated upon during the period of a year, the author considered as cases of such complications all those in which there was a rise in the temperature exceeding 38 5 degrees C accompanied by dispute and cough,

In discussing vaccination for the prevention of pulmonary complications, Pohl describes the meth ods of others and then his own procedure

Pohl first makes an intradermal test to determine whether the patient is sensitive to the bacteria usually associated with pulmonary complications For this purpose he uses a polymicrobic vaccine from the Pasteur Institute If the intradermal test is positive, he vaccinates the patient with the yaclydum of Duchon according to the technique of Lapointe, giving 14, 14, and then a daily injection of 1 cm daily for sight days. A differential of I c cm daily for eight days A differential leucocyte count is made every day and another intradermal test on completion of the vaccination The final intradermal test is usually negative If it is positive, another series of injections of vaccine

The proof of immunization is the marked polymorphonuclear reaction in the blood, the negative

intradermal reaction, and the low incidence of pulmonary complications in patients treated by vacci

The incidence of postoperative pulmonary complications in gastric surgery has been reduced by pre operative vaccination from 30 4 to 22 6 per cent, and the mortality of such complications from 96 per cent to o In a series of 104 cases without vaccination—in half of which operation was performed under ether an esthesia and in the other half under a combination of local and spinal anæsthesia pulmonary complications occurred more frequently when local anasthesia was employed than when anæsthesia was induced with ether Of the 41 patients who developed such complications, 9 died Of 62 cases in which vaccination was done, local of oz cases in which vaccination was done, accarding spinal annesthesia was used in 52 and ether anæsthesia in 10 developed in 3 of the cases in which ether was used Postoperative complications and 11 of those in which local anæsthesia was used,

The author emphasizes that pre operative vaccination must not be regarded as a panacea against postoperative pulmonary complications It must be supplemented by other procedures. The patient's general condition must be improved as much as possible and foci of infection in the sinuses, teeth, tonsils must be eliminated Operation should be postponed until all clinical and biological signs of infection of the gastric lesion have disappeared In Pohl's cases vaccine is given when necessary until the intradermal reaction is negative and the leucocyte count is normal For two or three days before the operation gastric lavage is carned out with a dilute solution of iodine in water

During operation, precision and gentleness are important An extensive gastrectomy is to be preferred to the excusion of ulcers or gastro-enterostomy

After the operation the patient should be kept warm and quiet. As the most important factor in the development of pulmonary complications is diminution of the respirators excursions, the patient should not have a tight binder or be kept long in bed Morphine should be withheld so far as possible The author's patients are allowed to sit up in bed after twelve hours, to sit on the side of the bed after thirty six hours, to sit in a chair after fortyeight hours, and to get up the next day respiration should be encouraged

inhalations of carbon dioxide has been proposed In conclusion the author emphasizes the importance of meticulous preparation of the patient, care-The use of ful Choice of the time for operation, vaccination when necessary, and getting the patient up early after operation ADRIEN VERBRUGGHEN, M D

Sutcliff, W.D. and Steele R.F.: The Relationship of Infection to Postoperative Polmonary Complications. Arch Surg. 035, 20-24.

The nutbors report a study made in sixteen cases before and after the substantial operations to determine the relationship between postoperative pulmonary complications, infection, and diminished ventilation. Except for one appendentomy the operations are performed to the perpet of the abdomes are performed between the complex as other above exchanged the complex of the complex

ministered rectally

Symptoms referable to resperatory disease were usually slight, but physical signs of pulmonery changes were present in all of the patients Roomt genograms were taken before the operation and every two to four days for period of two weeks after the operation Elevation of the disphragm was noted postoperatively in all of the patients. It was associated with duliness and rates at the bases of the lungs. Physical examination disclosed rales in plus cases, duliness in siz, diminished breath sounds in four and brouchial breathing in six Patchy shadows appeared in the postoperative rocutgenograms in six cases and diffuse assuress in three. In four cases nothing more than an elevatio of the duphragm with corresponding physical changes was observed I these, the diagnosis of hypoventilation was made. In two cases, definite columnary complications—lobe collepse in one and pronchonceumona in the other-were found the ten other cases the signs were of an intermediate character. The thora believe that many of the physical changes would have been overlooked if special roentgenograms had ot been made. The exteen case histories are presented in table and four cases are reported in detail

corr cross are reported in including a were taken. It is a seen as the control of the control before the operation and it interests from one if our days share the operation. To becterological findings are reported in detail. Three patients without pathogenic organisms in the phary rax before or after operation showed the least changes in the image. Of the image of th

#### Langgeninger K. The Problem of Pulmonary Embeliem (Das Problem der Langesembobe) Hebst. seel Acts., 934. 35

In all except two cases of fittal polimonary embous sees during the last four years the embods ere small, ranging in size from that of pea to that of the fit of the httle finger. The patients would not have been saved by Trendelenburg operation as there was no mechanical obstruction. However most of them died within few minstes, whereas in transe of

large pulmonary embod the patient usually survives for from ten t t elve minutes

The author presents typical case histories. The theory that the sudden death is due to refer caused by irritation of the vessel wall by the suddealy entering embolus he believes is untenable as even powerful stimulation of the venci wall such as that produced by the injection of science g solo tions into varicose veins, arteriography and the lodging f fragment of the steel jacket of builet branch of a pulmonary vessel has no reflex effect Foreman was able to sound the right auricle through the beallic vein on himself without causing side-effects, and in experiments in lach Allen and McColl and Schumacher and Jehn attempted to produce artificial palmonary emboh in animals no evidences of shock were noted although pieural nd mechastinal shock are well know the soment in azimais. The whip-like pain occuring in arterial embolum cannot be cated in support of the theory as it is expect by the secondary arteriospeam or lachande speam. Moreover the expenmental researches of Odermatt have shown that the

arterial intima is meansitive to mechanical stimul-Lengushager therefore believes that the sudden death should be regarded as torus reflex death. All blood clots, including the intravascular undergo dissolution by sterile tolysis after certain length of time. This process sets free protein bodies which cannot be tolerated perenterally. The author curs the experiments of Hoffmekter and Voelker. He himself performed experiments with four samples of human blood. A sample of normal sterile known blood, a sample made slightly allrahue, and a sample slightly acidified were betweetically scaled and placed in the incubator for twelve days, and sample f normal blood was placed in the refing erator. Actually therefore, blood coagula were employed. The isonium period chosen was twelve days became embolism usually devolops in about that length of time. The autolysates were filtered, tested for sterility, and injected intravenously ( cm) ist rabbits It was found that severe disturbances of cardiac function ere produced only by the normal or accelified autolysates. T estiseconds after their use, tachycardia developed with powerful dilutation of the heart, especially the right heart, and within me or two misutes the heart topped If can als 14 per cent solution of sodium phosphete were injected int the right heart trainediately under pressure the heart soon recovered normal function. Although these reverable tonic effects were observed only twice in studies of ten speciment of normal human blood, Leaguehager believes they represent the phenomena occurring m climcal cases H bases thus theory on ( ) the pelse and temperature changes which not jaire quantil precede the occurrence of embolum, ( ) the delatation of the right heart which is often found to internal thrombons and (3) the fact that even quit large pulmonary emboli often do not cause instantaneous cardiac death

It is to be assumed that postoperative acidosis favors the formation of autolysate toxins. Arterial emboli produce no symptoms because the milieu in which they occur is alkaline.

Lenggenhager then replies to the criticisms of his hypothesis. He discusses particularly why reflex death does not occur in cases of humatoma and extensive thromboses without embolus or in those of large emboli occurring soon after operation. He states that in cases of humatoma there is a slow resorption which does not enter the direct blood passages. In extensive thromboses there is a slow diffusion, and in cases of large emboli the time is too short for autolysis.

Lenggenhager then gives practical instructions. The described procedure is the injection of from 100 to 300 c cm of a 2½ per cent solution of sodium phosphate by means of a large syringe into the right heart through a semi soft hollow probe filled with liquid which is pushed forward for about 32 cm through the opened external jugular vein

(TRINZ) HIPEL A SILZUIN MD

Arnulf, G The Pathogenesis of Postoperative Parotitis (Ou en est l'étude des parotidites postoperatoires? Essai de mise au point de leur pathogéme) Rev de chir, Par, 1934, 53 680

The author considers only parotitus occurring after an operation at a distance from the parotid glands -an abdominal operation for instance-in which there is no infection of the mouth or parotid region and the trauma of the operation was apparently the only cause of the condition. He concludes that the infection in such cases ascends through the duct. As the parotid opens into the mouth, which is a very septic region, ascending infection may take place just as in the kidney or pancreas. The mouth contains all the bacteria that are found in parotitis The organisms most frequent in postoperative parotitis are the staphylococcus aureus, streptococcus, and pneumococcus. When there is an infection at the site of operation, the micro-organism in the parotid is usually different from that found in the operative wound

Arnulf reports experiments on dogs which showed that parotitis may result from arrest of parotid secretion and that arrest of parotid secretion may he caused by operative trauma As a rule the secretion of saliva is increased during operation and slowed at the end of operation. On the first postoperative day the mouth is very dry. The secretion of saliva is reduced by reflexes, dehydration, ether anæsthesia, morphine, and the absence of movements of mastication. Among the factors predisposing to parotitis are an orifice or duct smaller than normal, a greater reflex inhibitory action from the pentoneum to the salivary gland, and a more abundant buccal flora than normal As these factors are rarely combined in the same case, postoperative parotitis is rather rare

Postoperative parotitis is best prevented by the avoidance of unnecessary trauma during operation,

the administration of abundant fluid before and after the operation to prevent dehydration, hygienic treatment of the mouth, and the administration of stimulants to salivary secretion when the mouth is dry

1 UDREY GOSS MORGAN, M.D.

## ANTISEPTIC SURGERY, TREATMENT OF WOUNDS AND INFECTIONS

Lochr, W Treatment with Cod-Liver-Oil Ointment, With and Without a Plaster Dressing, in Cases of Fresh Wounds, Burns, and Phlegmonous Inflammations (Ueber die 1 ebertransal benbehandlung-mit und ohne Gipsverband-bei frischen Verletzungen, Verbrennungen und phlegmonoesen 1 nizuendungen) Zentralbi f Chir., 1934, p. 1686

Lochr reports on three and one half years experience with cod liver-oil ointment in the external treatment of wounds. His chinical experiences were supplemented by studies of the effect of cod liver oil on wound surfaces.

Most oils, even though not sterilizable, are nevertheless free from bacteria. Cod liver oil belongs to this group. Bacteria are destroyed in it even if they are added in large numbers. Moreover, experience has shown that very large amounts of cod liver oil applied to large wound surfaces do not produce toxic phenomena.

Since cod-liver oil in fluid form does not adhere to wounds satisfactorily, an indifferent ointment component was mixed with it. This combination is not inferior in effectiveness to the raw cod liver oil. With melting of the cod liver oil ointment, the oil pene trates into all crevices of the wound, abundant granulation tissue forms as in the Bier chamber, and the epithelium is stimulated to grow. Even in cases with enormous wound surfaces, Lochr has never been compelled to transplant skin in the last three and one half years.

The invasive power of the bacterial flora of the wound is very markedly inhibited. It is important to avoid disturbing the wound any more than is absolutely necessary. The use of drains and gauze should be omitted if possible, and changing of dressings should be limited to the minimum. In some cases an unperforated occlusive dressing of codliver-oil ointment and plaster may be applied to advantage over the layer of cod-liver oil.

Wounds that have been roughly contaminated with soil and highly infected wounds are never treated primarily with cod liver oil ointment. The cod-liver oil ointment and plaster dressing is indicated for chronic wounds with large tissue defects of the most varied types and after phlegmonous processes and gas gangrene, but particularly for burns

The results of this treatment are shown by seventeen illustrations. The lesions included recent in dustrial injuries of the fingers, a gunshot wound of a finger, severe hurns, a large roentgen burn, severe crushing injuries of the forearm and elbow, severe compound fractures of the leg with large defects in

the soft parts and bones, a severely contaminated crushing inpury of the brain with shall and soft-part injury and loss of substance of the upper extremity from the redent

The effectiveness of cod liver oil is attributed t its content of Vitamins A and D

(REDGEN) JOHN H GARLOCK, M.D.

Glerk, A. M., and Cruicktheak, R. The Treatment of Burns. Leace: 455, 58 301

During the past tw years bacteriological examinstitute have been made of su be taken from the abraded surfaces of severe burns in cases admitted to the burns wards of the Glasgow Royal Informary It has been found that in the cases of patients admitted to the hospital within twenty four hours after the latery the majority of burns are unfolerted I the time of their admission. Later, generally within from twenty four to forty-eight hours, caltures from the burn yield a profuse bacteral fora in which streptococcus furmelytices is usually the predominant organism. This becterram is not lafter quently present to almost pure culture and seems to find the large abraded area deprived of its protective epithetal covering particularly favorable environment. Because of experimental evidence that taxatc acrd acts slowly on cult ten of streptococcus formolytices, the utbors advise the use of 5 per cent taunuc acid solution to which is added a so per cent solution of proportiary halosen deriva tive of arlenot. They apply this as most dressing 5 TURY I SLEETL M D

Dunbur J. A Kerlew of the Burn Cases Tracted in the Glosgow Royal Informary During the Past Hundred Years (1823-1834), with found Observariance on the Present-Day Treatment, Glarge 11 / 434 x1 34

Dusber reviews 0,074 team of barns treated in the past h ndred years. During the past fifty years the Classon Royal Infirmery has had burns wards The number of cases seen as increasing. The increase is due to ( ) is increase in the population, ( ) in creaming popularity of hospitah, (3) changes in social

and economic conditions, and (4) industrialization In the 1,417 fatal cases reviewed. 8 per cent of the deaths occurred to the first twelve bouts, 40 ; per cent within twenty four hours, and 65 5 per onst within forty-eight bours. The mortality then fell t 8 g per cent on the third ds and a y per cent on the fourth day and thereafter gradually decreased until the fourteenth day here t showed slight necessar The greatest maraber of deaths occurred bet eex twelve and t ext four hours after the content Only #5 per cent occurred than the time limit usually associated with the beginning of cut torems. Dunba is of the opinion that if the obviewely fatal cases are characted, the percentage of deaths due to acute toxicman to ery small II does not believe that ecute toxician to due to the absorption of broken down professe, bring inclined rather to attribute the phenomena associated with the socalled toxic bern shock t balerton. In his error rience, burns of the performs of male intants are often rapidly fatal regardless of their severty. He thinks this fact is explained by irritation of the testi-

The local treatment of bures during the past husdred years may be divided into the persons before and after the introduction of antecptica that at before and after 1568. In the pre anthropic period two methods were employed, the dry and the oils The antiseptic era can be of kied roughly int three persons () the carbolic acid period (\$68-131))
() the sodium hearthouse period (\$86-1010)
and (4) tannic acid period. These represent three theories as to the prescipal causes of early desta ( ) that organisms or responsible (s) that organhave are not the sale tause and (s) that protess

decomposition, not infection, is the cause Because of the recent popularity of the tamic acid treatment, it is interesting t note that this form of therapy was tried by Dunlop in 583 but apparently did not become popular t that time Dunbur has been disappointed in the results obtained its the tarmic and method; third degree berns, but be berry that this treatment is estudictory for any and second degree burns. The principles governing the general treatment in cases of huma he e here the same throughout the last hendred years comreation, stimulation, and the rebel of pain reportance of an abandant supply of fluids has been recognized throughout that time. Blood letting at ra vogue in the earlier years and has been reserrected by examplements transferous advocates. The general transment in the baras and in the Chapra Ren al ladronary as the past year has been as follows

A bath at temperature bet een too and so degrees F is given and the passent then put his shock room where the temperature as mulatained bet een to and go degrees F la many came, how ever the hot bath most be omitted. The shock room the Juffrmary is madione it ha capacity of only

bede lis imperature can be kept i say temperstare desired

Morphise is only to exid necessity Strachadne, fo pr ( / so gr fe p en te children) followed by whater at attervals of from th & four hours as indicated. When shock persons,

cumpler oil a injected 4 The thet commet of bheral quantities of said containing notion becarboner and glacone II the patient is ack, asline solution is given by rectain acep enems followed by the continuous roctal admix

estration of saline solution has sucided good results 5 Elimination is procured ith augustern and phate to the cases of adults and with castor of in the cases of children Urotrops is given every four bours t keep down a y flammators roudition of

the kidnes 6 Authoreptoroccal arrans (acaristmail) or gives t all children, to il patients with extense berre. and to all patients above temperature rises above

so degrees E within t enty-four bours

7 When the patient recovers from shock every care is taken to keep him from becoming chilled during his removal into the ward. The temperature of the shock room is reduced to that of the wards Gamgee jackets are applied to babies, and extra blankets are given to all patients

8 In cases of severe burns the patient's position

is changed frequently

Pulmonary complications and sepsis are the most common complications Duodenal ulceration has been recorded in only to cases and Dunbar believes that, at most, it has not occurred in more than 30 cases He doubts that the scarlatinal rash often observed is true scarlet fever. It has not been observed since the routine administration of antistreptococcal scarlatinal serum Tetanus and nephotis have been rare STANLEY J SEFGER, M D

Miller, R. H., and Rogers, H. The Present Status of Tetanus, with Special Regard to Treatment A Report of Further Cases from the Massachusetts General Hospital J Im W 1ss, 1935,

The authors report a gradual decrease in the mortality of tetanus since 1896 from 80 to less than

47 per cent
They state that the prophylactic injection of anti toxin (1,500 units) is indicated in cases of deep or puncture wounds that may be contaminated. In unusually suspicious cases this should be repeated once or even twice at intervals of ten days

When possible, the wound should be debrided

and kept open

After the onset of tetanus every effort should be made to conserve the patient's strength by the maintenance of nutrition and fluid balance and the combating of muscle spasms

Tribrom ethanol is a useful drug for the control

As soon as the diagnosis is made, serum should be given intravenously or intramuscularly or by both methods in daily doses of from 20,000 to 80,000 units up to a total of 300,000 units

In hypersensitive subjects the process of desensiti

zation must be instituted as soon as possible

There are no theoretical or practical grounds for the recommendation of the intraspinal administra tion of antitoxin

Serum reactions may be expected in about one third of all cases treated The immediate reactions occur as a rule from two to five days, and the delayed reactions from ten to fifteen days, after the initial dose of serum. In the cases reviewed there were no fatal reactions JOHN H GARLOCK, M D

Ralga, A The Rôle of the Organic Constitution in the Evolution and Treatment of Furunculosis (Le rôle du terrain organique dans l'évolution et le traitement de la furunculose) Bull el mêm Soc d chirurgiens de Par, 1934, 26 530

The author states that furunculosis is sometimes serious Occasionally it is complicated by septi

cæmia The causative organism is the vellow or the white staphylococcus The condition may be cir cumscribed or diffuse The following five clinical types may be recognized (1) true recurrent furunculosis, (2) accidental furunculosis in which an increase in antibacteriophages is produced by an intercurrent disease such as corvea, (3) recurrent accidental furniculosis due to successive contaminations from other lesions or other people, (4) recurrent furunculosis with hypergly camia in which there is a definite disturbance of carbohydrate metabolism, and (5) severe furunculosis

Raiga is of the opinion that furunculosis is always associated with definite constitutional changes. chemical and immunological. The chemical change is hypergly cremia, either actual or potential, and the immunological change an overproduction of antibacteriophages He therefore believes that the treatment should be directed first toward correction of the hypergly camia by regulation of the diet and the administration of insulin, and toward combating of the antibacteriophages by autohamotherapy After elimination of the antibacteriophages the d'Herelle phenomenon can take place normally and bacteriophages may be used successfully

WILLIAM C BECK M D

## ANÆSTHESIA

Heard, k M Clinical Observations on the Use of Evipan Canadian M 1ss J, 1934, 31 617

Evipan, a barbituric acid derivative, is the newest intravenous arresthetic. Although its use is limited, its action is spectacular. Within from sixty to seventy seconds after its injection, full surgical anæsthesia is established with relaxation sufficient for almost any procedure which can be completed in from five to twenty minutes. At the end of that time the patient regains consciousness with amazing rapidity, and after from twenty five to thirty minutes is usually entirely rational

At the present time evipan must be regarded as chiefly a substitute for nitrous oxide in minor surgery In the case of the patient undergoing a minor operation at home or in a small hospital it provides comfort, safety, and convenience such as were not possible heretofore. All of the author's patients who had been subjected to inhalation anæsthesia previously favored evipan when they were questioned concerning their comfort during the induction of, and recovery from, the anæsthesia Many persons have a horror of breathing gas or vapor of any kind, and others refuse to permit an operative procedure under local or spinal an esthesia Evipan an esthesia is a welcome time saver to the busy surgeon as its use reduces delay between cases, the technique for its induction being simpler than that required for local or spinal anæsthesia and relavation occurring much more quickly than following the administration of ether or nitrous oxide However, as it has been employed for only a short time it cannot yet be designated the ideal type of anæs-

thesis Moreover, it has disadvantages. There is the mechanical difficulty in giving intravenous injec-tions tchildres, beryons adults, and obese patients to the contract of the contract of the contract of the third manner. 464 with small veins, and there are persons who have a greater text of the needle than of the mask

ester user or the nectuse than or the mass. Evipen is used in a o per cent solution of the white crystalline powdered drag in distilled water write crystamine powerest uses in comment were it the solution is injected intravenously—t the rat If the sources is rejected intraveniously that has the of on in ten seconds, I will be found that the patient is still able ! talk normally ! the end of person a sum are ; talk marmany ; tas exit or is entry seconds. After thirty seconds, be is confused.

or incoherent but entirely culm and peaceful. After or incoherent but entirely cain and peaceful After two seconds, he goes to seep in the middle of a sword, annully with years After fifty eccode, respectively becomes more experience gradually becomes more experience. resparsions gammany no change in the color police, there is practically no change in the color police, or blood pressure. After extly seconds the pattent is or the control by the control of the in run turnestage anguiness and reasy to opera-tion. Immediately following the loss of conscioustion immediately reserving too too or consistoring acts, respiration becomes gradually more sorter field. However, I remains regular and of normal field. thythm until, after possibly ten breatts, respiratory raytom units, area possess can orearm, respectory perceptible. There may seen being comment to two of thist printipe be pause equal to two or targe unacted 1 per movements own gradually deepen again until full volume is reached to the point corresponding the general relaxation. This has been constant in every general retaration i his has been constant in every administration and differs from anything seen in auminimization and oners from anything seen in inhilation amendous. The color remains unusually minus from americans are cover a period orgal ( good, even is the pained covers a period equal to several respirations. As with inhalation americans, several respirations. As with unstation emergences, there is period of complete analysis preceding

there is person or compare analysis preceding and following the stage of full retaration. If the and following the stage of rull retarations it takes of the following the stage of the presence of the following termination of the constant processors that there are one at the recollection of the operation in the following t expenses: jun resization incurring their of the less muscles with absence of cough and say referres has lasted for from to the minutes. Total words missions with suscess or course sout for reacter has lested for from its t ten minutes. Total which scourages with medul relaxation has been more scourages. uniform for from ten t twenty minutes uniform for from ten t twenty minutes Therefore after the patient has quertly as in natural sleep for boot five min tes and then rolls ver opens ha bout nys min tes and then rous err opens na eyes, and looks around Sometimes he speaks rationally tooks, but more often he moves about recommenty to cover, our means once as marries amount for few moments, propers defend, and is most retional for four or few minutes. Occasionally in renonal for loar or are minutes (Accessorally in the cases of very nervous patients there may be the class of very nervous patients there may be hysterical crying, mounting or shouting. Except for nysterical crying meaning or anounns the group, recovery is complete from a culty-five thus group, recovery is complete from t enty-nye thirty min tes after the beginning of the inject

In the athor, cases of bed patrents the nursing CUE ARE CESA SE ION EMELATION AND DOCUMENT IN UNITED THE UNITED TH care was easy as seen supervision was never than in cases in which other was employed. When extpan cases in which cines was engaged in the difference is to be used in the office of as out patient clinic recovery room must be provided. The majority of recovery room must be provided in the majority of ambulatory protects will be able a tilk borns from forty to fifty minutes after the beginning of the forty t mity minutes after the beginning for an injection. Others may require a tching for an bour or more but expenses.

avoldance of acdatives will reduce slow recoveries to the minimum. The entire absence of names,

except in mouth cases, is noteworthy The technique of the administration of eripsa is and tocamedon or the annumeration of street as almpie as that of any intravenous injection. The as sumper as time to any miner crown imposed the properties post der is sufficiently soluble to allow preparation of the solution directly in the ampoula and

com system meneral in one ampone and ocum system. Because of the briefly of the period cum symme. Heracow on the patient on the of anesthesis, all preparation of the patient on the or anesthese, an perparation or the present on the sheld and table, including full attestination of the field and draping, should be compared before the injection. That this may be done with practically so danger of and the many of those with practically in congress.

Leter contamination is a further proof of the smooth ness of the induction. When the surgeon is ready to make the factsion, the assistant begins the injection. mars the sections, the assessmin begins the unprime leaving the absolute feet in the the patient seaving the augusticut ireo i w ion the patient and determine the speed of the injection and the quantity of anesthetic t be said. In an energing the surprise realy make the injection and then proone surgeon may make one injection and one par-ceed to operate, designing a mine to hold the re-The rate of lajection seems very important. The author believes he has prevented the tremor and guinor occurates on next latescripting to the control occurates on next latescripting the control occurs which have been attributed to too convenience which have been supported to the rate of short a rapid injection by injecting at the rate of short a rapid injection by injecting at the rate of short a rapid injection by injecting at the rate of short and t rapid injection by injecting at the rate or agent; a com in ten seconds. A slower rate is more efficient

meintain, but allows more accurate observation of the reactions It may even maily become desirable or the reactions at may execute the spread out the Evipan is so rapid in its action that its admires

trained may be continued or stopped at any time. depending upon name of the desired affect. Its us is therefore the thou the quiter of prinately in increase are from the content of minrecores or which is encounted by the content of the conte recovered it is one or the new crups that can be a tched t work, the most satisfactory period of a tened a nort, the most saturatory mention of determining docate. The other regards the docate recommended by the magnificture experiments recommended by the manufacture system and to be seened of the maximum of mym per people of the maximum is be exceeded only and maximum is be exceeded only and the complete of the maximum is because of the maximum in the complete of the maximum is because of the maximum in the complete of the maximum is because of the maximum in the complete of the maximum is because of the maximum in the complete of the maximum is because of the maximum in the complete of the maximum is because of the maximum in the complete of the maximum in the maximum is because of the maximum in the maximum in the maximum is because of the maximum in the maximum in the maximum is because of the maximum in the maximum in the maximum is because of the maximum in the maximum in the maximum is because of the maximum in the weight as maximum to extracted only made in each case. However, as the trial dose determined or aminal experiments is said to be from 45 5 po magin per pound, the margin of salety is wide, particularly as respect to your consequences. by animal experiments is said to be from 45 to mgm per ponoid, the margin of salety a wise particularly as regarding failure precedently so regarding failure precedently folder to the the start. The the dring by the region of the latter than the same of the same per salety is a support of the same of the same of the same of the property of the same of reported to execute the steep producting done to be boat one half the full dost. For example, the believes that the patient who goes to sloop readcm are dminutered will probably be when 3 cm are diministered will process; on a combined after the administration of 5 or 6 cm. ectains after the som nearston of 5 or 8 cm although the does by weight may be considered to more T continue to the full eight does in the more 1 continue t the rail eight occasion and patient would inevitably lengther the period of recovery without necessarily justices occessording increase in the operating that

ON COMPONENTIAL INCREASE IN USE OPERATING LINE 1 IN a moreone the length of the resistation time its this method the operation is begin at the sent time with the needle left in place, and if relaxation becomes insufficient after a few moments, a further o 5 c cm is given and repeated at intervals through out the operation. This is probably the ideal method since it allows completion of the work if unexpected complications prolong it beyond the estimated time. In the manner described three times the sleep producing dose has been given without causing undue depression although recovery was delayed, requiring two hours from the beginning of the induction of the anysthesia.

Pre-operative sedatives should be used with caution and only after some experience has been gained in the use of evipan. Morphine seems to add materially to postoperative depression without increasing the period of relaxation sufficiently. In most of the author's cases full doses of codeine or morphine were given within an hour after operation without causing trouble. It appears unwise to use any other barbiturate before or after evipan

Postoperative complications were entirely absent in the cases reviewed. No evidence of systemic damage was observed. In four cases in which a chemical study of the blood was made no significant change was found. No tissue damage occurred at the site of injection even in five cases in which leakage of the solution occurred. Of the three

patients who showed the slowest recovery one was over weight, one was under-weight, and one had a low basal metabolism. On the basis of experience with avertin such a reaction was anticipated in each as the contra-indications to the two drugs seem very similar.

In a series of thirty cases the author found evipan to be a satisfactor, an esthetic without the use of preliminary sedatives or a supplementary angesthetic for the incision of abscesses, dilatation and curettage of the uterus, the insertion of radium into the cervix, hymorrhoidectomy, the extraction of teeth, tonsillectomy, the exploration of an infected abdominal wound, and the control of convulsions in tetanus. In the cases in which its use was most satisfactory recovery was, on the whole, as good as, or better than, that from uncomplicated nitrous oxide anasthesia of about twenty minutes' duration. and in the cases in which the results were poorest they were considerably more satisfactory than those that could have been expected from the use of ether for the same patient and the same operation In four months' trial the drug has fallen short of the author's expectations in some respects, but has exceeded them in others. Heard believes there are still more fields in which it will be found of value

MAURICE MEYERS M D

## PHYSICOCHEMICAL METHODS IN SURGERY

#### ROTHTGENOLOGY

Hirsch, I. S.: Examination of the Heart by the Roentgenkymographic Method. Brst. J. Kalist 914, 7, 748

Observation of cardisc movements by means of fluoroscopy or cinematography has been rather unsatisfactory for practical purposes. The rount grakymographic method, which is essentially roent genography through a slit disparages placed close t the object in movement on moving him, seems to be a promising method for the study of curdiac action. In this procedure the outward lateral diastolic and inward medal matche movement of small portions of the curduse contour disclosed in the shit re recorded in the form of a wave on the film which moves at right angles to the direction of the shits. The peak of the wave indicates the post tion of the particular point of the surface of the heart in maximum disstole and the deepest point of the trough of the wave the position of the particular point of the surface of the heart is maximum systole By an nalysis of the contour mplitude, and dura tion of the wa ea of a particular part of the cardiovascular shadow and a comparator of the time and stace characteristics, the character of the move ment of that part may be determined and correlated ith the movement of other parts

The technique used is anal sed in detail as remerds the specime and with at the shie, the raredity of the film motion, the film target distance the local sont of the tube, the rotation of the gord, and the applicability of the examination with the patient in the horizontal and vertical positions The ameratus should be reassed for both moving film and mornes and and the complete k mographic examination of the heart abould include a postero anterior vien postero anterior second oblique view, and postero-anterior first oblique view with the experience filled with a contrast belus. The technique used by different workers in connection with some of the factors mentioned is tabulated. The Lymographic record may be studed by itself or in association with electrocardiographic or phonocardiographic records

Becuss of the difference is the techniques used by different voctors, there is a six to constroundly in methods of sasilyzing or reporting the fisching. The attention of sasilyzing or reporting the fisching. The attention that the third voctors are sold to the technique to the problem and humself. The tymographic were above the character direction, peenly, that repulsity of the movement of any fastrodary part of the movement of any fastrodary part of the movement of the movement of the contracting muscle and the nature of the surrounding trusted

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curves are replaced by he side in a step-like formation. Characteristic wave are found for different per tions of the carchae contour Vestricolar were consist fundamentally of a sharp, smooth, fewer moving timb representing distated Auricular es are characterised by simpler structure and smaller amplitude the the ventricaller a vez They consist of low story assembling hand (distated) as refutively shown rigid limb (protect). As action were retained as the control of the story assembling hand (distated) and the story of the story of

The method described makes it possible to determine with security the artist and direction of the more such as curvacy the artist and direction of the more makes of the terrors portions of the beautiful of the towners are to seath other the movement of the henri as to each other the movement of the henri as to each other the movement of the henri as followed as the boundary points between the various cheables, and the points of maximum and maileant devastions, and the points of maximum and maileant devastions. Thus, the placement of the points need ories and the gross functions of present-day methods of the point function of maximum and the point function of measurement way to

corrected In the study of the shootmal heart, trentges, by the study of the shootmal heart, trentges plus as twend derivations from the some due t dautenbores of rhythm to intrinsect changes in the meaching. An advantage of part of the heart of sorts are years it asking the of their detection. Outputs resulting the of their detection of their particular than the study of the stud

The kynnogram is of and in the differential deep noan of lessons which produce distortions of the mechantical shadow. Tomoris, substread thyrods, and cysts usually show no movement styre, just deforms of the medius shadow due to series. dilatation presents definite aortic waves and density changes in the waves The transmitted pulsations show as waves without density changes

Roentgenkymography may he employed also to study the action of drugs on the heart muscle

In conclusion the author says that, according to the data already obtained, many uses will be found for roentgenkymography and it will be of great assistance in the solution of numerous difficult problems in the field of cardiodynamics

The article is copiously illustrated by roentgenkymograms with complete descriptions which con-

stitute a valuable supplement to the text

ADOLPH HARTUNG, M D

Friedman, M, and Rosh, R Protracted External Irradiation in the Treatment of Neoplasms of the Mouth and Throat A Comparison of the X-Rays, the 5-Gm Radium Pack, and the 100-Mgm Radium Pack Radiology, 1935, 24 7

This is a report of a two-year clinical study dealing with protracted external irradiation as applied to the upper respiratory tract. Three types of rays were used to ascertain the relative value of each. The objects of the study were (i) to compare high voltage X-rays with gamma rays from the clinical standpoint, (2) to determine the optimum number of days for the administration, (3) to determine the optimum number of hours per day, and (4) to ascertain the indications for interstitial irradiation. The three techniques used were as follows

X-ray irradiation at 200 kv, 4 ma, filtration by 2 mm Cu and 1 mm Al, a distance of 60 cm, a portal measuring 10 by 15 cm, and a duration of treatment ranging from eighteen to twenty eight days A forty-five-minute treatment producing 200 r was given to each of two areas every day, one in the morning and one in the afternoon. The total dose was from 334 to 5 skin erythema doses or from

3,400 to 4,400 r to each of two portals
2 Irradiation with a 5-gm radium pack with filtration by 6 mm of lead, a distance of 6 cm, a portal measuring 8 hy 10 cm, and the delivery to one area only each day of a dose of 5,000 mgm-lirs, amounting to 30 per cent of a skin erythema dose. The time ranged from twenty-eight to thirty days. The total dose was from 50,000 to 60,000 mgm-lirs or from 3 to 3½ skin erythema doses to each of two areas. The grand total was from 100,000 to 120,000 mgm-lirs.

3 Irradiation with a 100-mgm radium pack with filtration by 2 5 cm of platinum, a distance of 6 0 cm, a portal measuring 7 by 9 cm, and the administration of a daily dose of 2,400 mgm-hrs to one or both sides of the neck, depending upon whether one or two packs were used The time ranged from eighteen to twenty five days, and the total dose from 43,000 to 60,000 mgm-hrs to each area

In the use of the X-rays the Coutard technique was followed A constant technique was used for purposes of comparison although occasionally

The technique efficiency was sacrificed thereby employed in the use of the 5-gm radium pack was designed to produce as nearly as possible the biological dose delivered by X-rays Expediency required that the distance employed in the use of the radium pack be such that the depth dose was smaller -about one-third that of the heavily filtered X-rays In the case of the 5-gm pack, 17,500 mgm-hrs delivered in three and one-half hours at one sitting produced a threshold erythema Daily treatments therefore lasted one hour, 5,000 mgm -hrs or 30 per cent of the skin erythema dose heing given to one of two portals each day Thus, each portal received an average of 2,500 mgm -hrs a day In the use of the small radium pack the factors of the treatment with the 5-gm pack were duplicated except that the quantity of radium used was different and the tubes were placed within the slightly smaller port The technique employed in making the applications is described in detail. In the use of the small pack it was found that while the optimal duration of treatment was twenty-eight days, the pressure of the pack was prohibited by the epidermitis after the twenty-third day Clinical observations were made and graphically recorded three times

With regard to the duration of the treatment the authors state that in the use of the X-rays with an effective wave length of o 16 A U and a half-value layer of 0.92 mm Cu, a single dose produced an erythema which reached its peak in from sixteen to eighteen days. If these rays were administered at the rate of 200 r per day, the reaction was so intense by the sixteenth day that discontinuance of the treatment became necessary. Therefore it is postulated that from sixteen to eighteen days is the optimum time of protracted external irradiation with rays of this quality.

In the use of X-rays with a wave length of oir A U produced according to the Coutard technique and a half-value layer of 18 mm Cu, the optimum duration of treatment was from twenty-one to twenty-three days This finding agrees with the observations of Coutard, permitting the conclusion that the most effective type of protracted external irradiation is that which will produce an epithelitis and an epidermitis of second-degree intensity in which the epithelitis appears and terminates from five to seven days before the epidermitis claimed that any irradiation administered later than the customary three or four weeks is directed at a tissue which is capable of not only resisting the destructive effect of the rays but also of undergoing reparative fibrosis while under hombardment Therefore, increasing the total dose much above 800 r when treatments have been unavoidably extended beyond twenty-one days does not seem to influence the response of the tumor On the other hand, if the duration of the treatments is too short there is a resulting increase in the severity of the epithelitis and epidermitis which necessitates reduction of the total dose administered

In the use of radium gamma rays of an effective we kength of o 1 A. U w th a half when layer of 1 gmm of lead and a distance of 6 cm threshold crythems will be produced with a dose of 17 goo roum hrs. The latent period varies from four to six weeks. The destructive phase for gamma rays lasts for from twenty-eight to thirty days, after which time the tumor becomes markedly resoluted.

The tumors studied included all types of car cinoma of the mouth and throat of varying degrees of mahemancy. It was found that many were not completely destroyed by the external irradiation and required interstitual treatment protracted external irradiation the tumor bed in modified to such an extent that it cannot tolerate interstitual irraduation as well as the non-irraduated these. When such areas are treated by intenstitial irradiation they often but to heal spontaneously and bone within the range of the intenstitual irradia tion breaks down with prolonged extremeetitie. It was found that if a lesion shrank 5 per cent in from fourteen t mixteen days after the onset of the treat ment, it meally disappeared completely under the influence of external pradiation alone. When the shriplage was less than 5 per cent, at the end of that time the external production was terminated and interstrial irradiation was administered as soon as the condition of the mouth permitted. As rule only a small dose of interstitlel arrachation was required to destroy the remaining turnor but when the interstition irradiation was delayed five or an weeks a m ch larger dose as necessary for the same volume of treate as b the end of that time the neoplasm had become more rachoresistant. The study demonstrated that the problem of interstitial arradiation is amportant. It was found that external tradiction rarely eradicates the more common resistant careformatas of advanced lessons. Residual turne must be destroyed by interstitual irradiation or electrocongulation or both

The regard to the duration of the daily treat ments the authors stat that the deal stradiation is an readuation administered continuously for t ent four hours a da over the longest effects. time period The small co-mgm park meets this ideal by giving in twenty-four hours pproximately the same dose as is given by the 5 gm pack in one hour The others present tables showing that the small pack giving a dose of 43,000 togot -brs t each rea produces shightly less intense epithebia but a more intense condermitie than the large pack giving dose of 55,000 mgm hts over simila period of time They state that from 3 to 316 skin erythems doses of gamma rays deli ered by the large pack re regulared to produce the reactions and results produced by from 5 t 75 skin erythems doses delt ered by the small pack. Therefore the small pack will produce beological effect of the same degree as the large pack a th onl So per cent of the

The there findings and conclusions in summanifed as follow In comparing the effect of X ray, and indexes gamma rays according to the technique rast so seguliate difference in the effect of these t raupon the tumor was noted. It required 4.5 size crythems does of X-rays t produce the effect of 3.5 skin evythems does of gamma rays.

The crythems from gamma ray appears later and is more prolonged than that from X my Gamma radium rays produce more profosed effect upon the normal issues around the tumor which readers subsequent interstitud irredution

icas well telerated

3. The duration of the period of administration is the most important single factor in protracted external irraduation. Since each type of scopiens has list over hythm of response, the attempt should be made to perallel this rhythm with solitable time duration for treatments. A diellar adjustment of these is factors is essential for protracted ura duation.

4 The double small roo-ergen pack producing continuous irradation for twenty-four hours day is an efficient therapeutic medium which closely rivals the 5-gm pack. A James Lassey, MD

Craver L. F. and MacComb, W. S. Herbick's Method of Goutmoors Irradiation of the Eath's Body for Generalized Neopleans + J. Restigues 234, 3 53.

The Heubleh and m which continues invidence of a patients was possible was established in May 93 but because of commercia conditions in see was discontinued in May 93 of conditions in see was discontinued in May 93 of conditions of the operating at the via substanted fermidation. The fall ratios generally employed, that obtains The fall ratios generally employed, that obtains The fall ratios generally employed, that obtains for one for the nat bed and 9 per four for the rate of the far bed. The fall ratios from the rate of the product of th

for 7.48 isours

I safetions to the ward, there as roose directly
beneath that the in which it as possible to treat
patient internationally to distance of 30 cm.
States patients who recovered a large field for treat
ment are treated by this internations method

During the period of the years, a patients in reverd continoon simulations in the Heablesh and in 37 cases, the Heables testiment is shown of including present patients but recovered local irraduction previously and in 35 cases local irraductions as most desired, first the Heablesh trustment. The downg set are first the Heablesh trustment to the downg set are first patients and the first patients of the same time and the first patients are considered for the same patients and the first patients of explaining the manner of experiments of explaining the manner of the same shows practically sorre contrared, and no create of the same patients are not stopped as a found almost routiner's and assertions in some of the same patients.

the cases During the first few months detailed studies were made not only of the blood picture but also of the chemical constituents of the blood, the icterus index, the findings of fragility tests, and the basal metabolism No significant changes were found in the chemical constituents of the blood. The blood cell and platelet counts were always watched carefully

The radioresistant group of 25 cases included such conditions as mammary, prostatic, ovarian, renal, testicular, and tonsillar carcinoma. In this group the treatment was of only slight value except in a case of metastatic ovarian psammocarcinoma.

which seemed to show some regression

In the radiosensitive group of 100 cases were such conditions as Hodgkin's disease various types of leukæmia, lymphoid tumors, multiple myelomata, and Wilm's tumor All but 6 of the 54 patients surviving showed definite improvement and have survived for from three to twenty-four months since the beginning of the treatment. Of those who died later, 17 showed palluation Thus, of this group, 60 per cent showed appreciable improvement and 44 per cent were benefited and are still living Contrary to the usual results obtained with local irradiation, patients with chronic lymphatic leukæmia seemed to respond better than those with myeloid leukæmia Such patients should be given relatively small doses not exceeding 15 per cent of the skin erythema dose in i treatment period of six or seven days The largest single group of patients were the 44 with Hodglin's disease Of this group, 30 showed improvement and all but 4 are abve Fourteen have survived for more than six months and 2 for more The authors were impressed by the than a year well marked and persistent tonic effect of the treatment and believe it should be employed routinely in Hodgkin's disease in conjunction with properly chosen doses of local irradiation for the bulky localized masses

Certain difficulties in the use of the described method are discussed. In cases of leukæmia a tendency toward thrombocytopæma was sometimes noted. The development of leucopæma and anæmia is common. Bulky lesions often do not regress satisfactorily. In the latter case, local irradiation in smaller doses than if used alone may be employed.

Certain modifications of the method for further investigation are proposed, such as more intensive treatment of a single portion of the body with shielding of the rest of the body, the use of small doses of general irradiation supplementary to local irradiation, and the use of unfiltered or lightly filtered irradiation for certain generalized cutaneous diseases

Evaluation of the results obtained by this type of irradiation based entirely on statistics would raise the question as to whether similar or even better results might not be obtained by the usual local irradiation. As the method was new, the proper dosage had to be determined. The cases treated

were more advanced than the average case treated by localized irradiation. This report was made only a little more than two months after the last treatments. The authors believe that less attention should be paid to the figures and more to the impressions gained. They are of the opinion that while the method seems to be of little value in the treatment of the radioresistant tumors, it is an important addition to the treatment of radiosensitive tumors such as Hodgkin's disease, the leukæmias, lymphosarcoma, and multiple myelomata. The results in chronic lymphatic leukæmia and pseudoleukæmia seem superior to those obtained by local irradiation.

Larl E Baeth, M D

## MISCELLANEOUS

Haas, M, and Lob, A. Short-Wave Diathermy and Its Use in Surgery (Die Kurzwellendiathermie und ihre Anwendung in der Chirurgie) Deutsche Zischr f Chir, 1934, 243 318

Short-wave diathermy, in contrast to the longwave diathermy used heretofore, is the therapeutic application of the electrical high-frequency

alternating condensor field

In long-wave diathermy (up to a wave length of 300 m) the alternating current is carried directly to the body by the aid of contact electrodes. To prevent burns and decrease the undesired resistance of the skin, the electrodes must be adjusted with as good contact as possible In short-wave diathermy, on the other hand, a large air gap is necessary between both electrodes and the body surface. In long-wave diatherm; the period of the alternating current is still so low that the capacity of the wave components as compared with the conduction current determined by Kirchoff's law may be disregarded In biological tissues this conduction current, after having overcome the relatively great resistance of the subcutaneous fatty tissues and produced maximal warmth in these tissues, follows the paths of least resistance, namely, the blood vessels Because of the ramifications of the blood vessels, the deep tissues are reached only by a slight current and therefore are not warmed to any noteworths degree

On account of the considerably higher frequency and the consequently greater di-electrical conductivity in short-wave treatment, it is possible, by proper application of the electrodes, to apply most of the electrical energy to the deep tissues of the part treated without producing too much warmth of the superficial tissues. However, it must be mentioned that in the development of the current in the deeper structures the differences in diathermy or short-wave frequencies are not so great as has been

The authors are of the opinion that the first and only effect of treatment in the high-frequency electrical condensor field is the production of warmth in the tissues. Others claim that there is a specific electrical effect. While the authors do not

doubt Pactsoid's experimentally demonstrated spediest permits effect produced by high frequency waves, they are of the opinion that the blooderal effects of the electrical condensor field which are described in the literature as preclically electrical should be designated as the specific effects of elec-

trically produced sarmth

On the basis of theoretical considerations and experiments with models composed of layers of electrolytes it may be concluded with certainty that in a stratified medium a selective effect may be obtained in one layer with a certain di-electrical constant by means of a certain ave length, cape cially a meximal factors in the temperature in this layer In body tissues only n pproach to such an effect can be obtained became the body presents no stratified medium of umilar electrolytes, but very dissipular and inconstant relationships of size. Therefore the athors refuse to suggest a there pentically is vorable frequency for deficit disease on the base of the relation between conductivity di dectrical constanta, and wave length or measuremonth of the conductivity of high-frequency current in individual biological objects

The absolute values i di-electrical mosts to is human treuza are entirely naknown. Also unknown is the effect upon them of disease. Measuring dosage is deficult. In addition t the factors of wave length and these t is important to know the field strength. However measurement of this factor appears impossible. The authors attempted t determine the total field strength by repeated examstations of besingical test objects with the aid of detailed physical methods. However they state that with regard t the field strength in the interior of the objects nothing can be said because, on count of the inconstanty of the di electrical consta us, it is subject t great variations. These difficulties may be partially surrecented if a ben the field-strength dongs is pobed, the operator allows himself to be ruided by the patient's subjective sensation of Following dosages not producing any poreciable or demonstrable agenuth, no hasbeless reaction can be demonstrated even by fastological

extimations. After these introductory remarks the uthors discuss the indivitions for and the therapeets mental is short as we distribute each of the present of the interactive there are number on reports of favorable results from any first of favorable results from any first of favorable results from any first of the present of the favorable results from any first of the present of the favorable results from a favorable results of the favorable results for the favorable results of the favorable results for the favorable results for

flaces in progress infections, especially those of the skin. The authors state that their expenses e does not support this claim. The results of abort in treatment by no means narrant disregard of the basic surgical pranciples for the treatment of prosenic futections established by the school of on Bergmana, especially Lexer Even today program injections which do not yield readily to rest and protective dressings must be opened as early as possible t establish drainage for removal of the becteria and their toxins. As a role short wa treatment should not be employed until after such intervention. Only in mild cases and at the began alag of the filtress may short-a ve treatment be tried alone, and then all ays moder the obstrution and direction of a physician its surpost exterfence

of disease. Tendos-sheath phigmone constates of defaulte contra-induction to short wave treatment. The suthers strongly styries also against trying the treatment is acute supportative ofconyridis as treatment is acute supportative ofconyridis as a so the supportative bundles, about wave treatment as be securated only after the bundle has been opened. Favorable results have been obtained in sumerous cases of persionalis. By prolonged over meet which is one case lasted ten borns, afteritions to the contract of the support of the contract of the intervention of the sum of the support of the meet which is one case lasted ten borns, afterition in the force of tension of the supportment.

The authors review asperiences in different types

In the relever not treated on the generation, angestern in a three treatment of incit to the remaind on the treatment of incit to the remaind on the treatment of incit to the remaind on the remainder of the forest of the fores

A do field for abort every therapy to present by postoperative testioned it came of tested sucron, tendou-about piller ground, plants operations, assumed to the testiment of testion operations. As the regard to the treatment of tennors, asked experinents with Estards means cancer showed their testiment new only failed to destroy the apoption, but as pracerally followed by more rapid ground If has failed also us cases of moperable cancer of the largest in huma probects.

(Zulmus) Marsias J Services, M.D.

## MISCELLANEOUS

## CLINICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

Learmonth, J R The Surgeon and Pain Brit M J, 1935, 1 47

From a chinical point of view pain may be classified as follows (1) pain due to a recognizable cause which cause can be dealt with, such, for example, as the pain resulting from the perforation of a peptic ulcer of the duodenum, (2) pain due to a recognizable cause which cause cannot be dealt with, such, for example, as the pain attendant upon inoperable malignant disease, and (3) pain of unknown cause, which can or cannot be abolished by surgical measures, such, for example, as the pain of trigeminal neuralgia on the one hand and the "painful face" that is not trigeminal neuralgia on the other. The author discusses the second and third types

Before the performance of any operation undertaken primarily for the denervation of a painful part, it must first he proved that a frontal attack on the lesion is impossible. This decision may be necessary under any one of the following three sets of

circumstances

The site of the lesion and the site of the pain are the same Under these circumstances the problem can be quickly solved by clinical examination alone or clinical and pathological examination

2 The painful area is more extensive than the local lesion, as may be the case, for example, when carcinoma of the rectum invades the nerves of the sacral plexus. Under these circumstances care must be taken that the operation considered will not deal only with the visceral component of the pain

3 The pain is a "referred" pain and the lesion is distant and possibly not even surgically accessible. In certain obscure cases of severe pain about the lower jaw, for example the pain is a manifestation of cardiac disease and division of the posterior root of the fifth nerve for its alleviation would be disastrous.

When operations for the relief of pain are undertaken the following two different anatomical arrangements of pain fibers are encountered according to

the somatic or visceral origin of the pain

I Somatic pain fibers from the periphery concentrated first in nerve trunks and, possibly after passing through a plexus, spreading out over posterior roots and becoming concentrated in the anterolateral tract. This tract is the most logical point of surgical attack as its proper division yields maximal analgesia with a minimal effect on other forms of neural conduction, either motor or sensory

2 Visceral pain fibers concentrated in a strand or strands of one of the splanchnic nerves, spreading out again over the "roots' of the strand, and possibly extending still further in the sympathetic paravertebral chains from whence they may enter the cord by way of many posterior roots and in the cord itself pass by one of at least two routes—the anterolateral tract and the ground bundles close to the gray matter. The most logical point of attack on visceral pain fibers is the particular splanchnic strand in which they are first concentrated.

Operations for the rehef of somatic pain may be performed on the peripheral nerves, posterior roots, cramal nerves, and anterolateral tracts. Division of the anterolateral tract to abolish the pain of incurable disease was originally suggested by Spiller The indications for this most valuable operation

may be grouped as follows

r Pain due to the presence of an irremovable tumor which is pressing upon or infiltrating contiguous nerves. An example is the distressing pain of widespread malignant growths in the pelvis

2 Pain due to pressure upon nerves by bony outgrowths—as in spondylitis, for example—and pain due to arthritis—of the hip for example

3 Pain due to intractable neuritis, such as that of diabetes and that of neuritis of the cauda equina

4 Pain in amputation stumps of the lower

extremity

The technical point of importance is the avoidance of injury to the crossed pyramidal tract, which is posterior to the proposed line of section. The division is usually made after removal of the spines and laminæ of two vertebræ—as a rule, the third and fourth thoracic. In cases in which the pain is unilateral and is likely to remain unilateral a unilateral chordotomy suffices. Bilateral chordotomy is necessary when (1) the pain is hilateral and when, though unilateral at first, it is likely to hecome hilateral, as in malignant growths of the pelvis that involve first one and then the other lumhosacral plexus, and (2) the pain is in part visceral.

In occasional cases even bilateral chordotomy fails to reheve visceral pain. In this group are certain forms of tahetic gastric crises. The author calls attention also to cases on record in which the analgesia was not permanent. He states that failure of the operation to produce permanent analgesia may be due to insufficient depth of the cnt into the cord or, possibly, to sensations of pain pressing into service for their transmission the posterior columns of the cord—an example of the well-known hiological

urge toward wholeness of the organism

The pain of angina pectoris and the pain arising from disease of the pelvic viscera are two types of pain which illustrate the anatomical and physiological principles involved in surgical treatment for the relief of visceral pain. The greatest concentration of pain fibers from a viscus is to be found in the

sympathetic strands in the vicinity of the viscuit in the case of the beart there are in the cardiac plexes, but a direct attack on this plexes a forticousty out of the question. After the fint concentration, a spread over sympathetic roots occurs over a vertical extent. The upper boundary of the spread is the junction of the superior cardiac over with the superior cervicial gaughou, and the lower boundary the names communicans of the fifth thoractic server re-estipates all of the never in this spread is obviously undestrable. However, if it is remembered to the present of the contraction is of the first theoretic server of the first theoretic services or the communication of the first theoretic services are serviced extension at the first theoretic services.

It has been found possible to block afferent cardia of here southed the squand canal by myeeting alsohol it os and around the upper fiv thorace gaught of the sympathetic chain on the left and. This is not aerous procedure Many good results have followed its use. It represents compromase between bedsely procedure of attacking the most covernated none which is associated with high tick, and attacking over which is essociated with high tick, and attacking over with a low real. The first cone of concentration of sympathetic flower from perick viscers which is consistent of sympathetic flower from perick viscers which is comparable of the first point of contraction of sympathetic flower from perick viscers which is covered in front of the difful hamber vertebra. In this never he front of the difful hamber vertebra. In the sorve his process afternet fifteen connected in the bedder the rectum, and notice of the presental special organs. As rule resection of the presental special organs. As rule resection of the presental serve can be done easily with manumal operatury risk.

This operation has been performed a the nucrous in certain cause of lattractable cystitus and in the pulliative trainment of looperable mai grant discuss of the histoder. It has been done also for the relief of intractable dynamorotras in which the pain is of collect type. Cause of this condition must be very carefully selected.

In conclusion Learnmonth ways it is by no measure octals that the beneficial effects of the operation reduce directly it the division of pain there alone, although these are undoubtedly posentia the nearer control of the theorem of the control of the control of the theorem of the control of the control of the theorem of the control of the control of the theorem of the control of the control of the control of the theorem of the control of the theorem of the control of the contro

Kirsch, O. Invegination and Spasmophilis (invegmation and Spasmophilis) Argola d'uner Med 934, 47 226

The other reports case of the like and second lave fination in a sween-months old infant with marked, though latent operatophilis. This case supported the theory first dwarzed by Goldschmidt their spannophilis is the case of the surked contraction ring described by Nothingel and Propping as the santopined cases of consignation.

intestinal invagination has an evident relationship to totany (frequent spestic obstinction, character, narrowing of the pupils, delirious, opisthotomes, cramps, mechanical contractures of the extremules, and spasms of the sigmoid flexure and same) H calls attention t parallelisms between the two dis eases They occur in the same age period (the first year of hie and the first half of the second year) twice as frequently is the male as in the female, and expecially in robust and apparently well-nourished children In both conditions there is a tendency toward grouping, that is, frequent occurrence on consecutive days, and the same seasonal curve which gradually rues to reach peak in the spring. le low from August to the first buil of November and then rises gam until the end of the yes. However in tetany the curve reaches its lowest point two months earlier in June and July The course of this seasonal curve suggests that invagination is due to vitaminosis, arrestally as keratemakou shows an exactly identical curve. This suggestion is supported by the greater-frequency of the condithou in males then in famales, which is found in all types of avitaminous the greater frequency of the condition in more robust bodies which require larger supply of vitamins, and its frequency is sefants, who recours a large supply of vitamins for maximal growth. Also like other syltaminous, both tetany and invagination because more frament dur ing the postwar period. The gentre intestinal deturbances in the prehminary period of invariantes. and tetany councids with the findings in other vitaminoses (ben ben, pellagra, and erythrodermia) The mourabilital distribution invasuation and tetany is also similar both of these conditions being most common in England, America, and Denmark. In the Anglo-Saxon race, they may be related to congenital radal qualities ( tail and

Kirsch also cites a number of observations re-

corded is the literature which tend to show that

solved only by further chemical stellar of the blood and palvanic intribulity.

Allow Rever polaried out the resemblance betwee strany and bert ben, the thor called attention to the resemblance between tetrany and pellags. A both of these conditions are produced by a inck of Vaxum B it seems reasonable t seek the cases of grammophiles and perhaps also that of furzignation

alunder stature) or to see going with its dangers of

vitammoula, or t certain national food labits

The operation as t whether invagination is t be

included in the spannophilic syndrome can be

an this group of conditions
(Surveys) Joses W. Berryess, M.D.

Freezon, N. E. Hamorrhoge in Relation to Shock. Ann Surg. 235 484

From experiments which he performed on cets and reports in detail the thor draws the following

oneclusions
I unannesthetized cats the increase is the rate
of the denervated heart after homosphage is due to

the hypersecretion of epinephrin No increase in the rate occurs when the adrenals are previously inactivated

2 When saline solution is administered intravenously, the increase in the secretion of epinephrin resulting from hæmorrhage is inhibited only slightly and temporarily and the elevation of the blood

pressure is only temporary

3 When a 6 per cent solution of gum acacia in saline solution is injected intravenously, the increase in the secretion of epinephrin following hæmorrhage is inhibited to a greater degree and the elevation of the blood pressure may be sustained.

When the blood lost is re-injected, the increase in the secretion of epinephrin resulting from hæmorrhage is well inhibited and the elevation of the blood

pressure is permanent.

5 If hæmorrhage initiates sympathetic hyperactivity of sufficient intensity, the resulting vasoconstriction leads to further diminution of the volume of circulating blood, probably through stagnation of the blood in the splanchnic area and the Such a process leads to shock. With restoration of the volume of circulating blood sufficient to inhibit the sympathetic stimulation, the vicious circle is broken and recovery results

6 Adequate treatment of hæmorrhage requires early restoration of the volume of circulating blood to inhibit the sympathetic activity before a further loss of circulating blood occurs through stasis

HERBERT F THURSTON, M D

#### Babcock, W W Am J Surg. Catgut Allergy 1935, 27 67

The author states that too little attention has been paid to the probability that many human beings are susceptible to catgut as allergic reactions to sheep serum have been demonstrated frequently He believes that the allergic response may be due also to the presence of bacterial products or a specific toxin or both. In support of his theory he cites the frequency of the phenomenon in thyrotoxic patients and the improvement in wound healing that has occurred since the more extensive use of silk. He believes that many of the recurrences following the repair of herniæ may be attributed to weakening due to a catgut reaction with local necrosis about the suture

With Pratt and Small, Babcock carried out a series of experiments on 120 individuals to determine the reaction of the skin to various suture material buried just beneath the surface. Chromic catgut produced a flare and wheal after twenty-four hours When plain catgut was used, the same reaction was noted but was less marked. A reaction occurred in all of the patients tested, but varied in degree in different individuals. When rustless steel wire was used, very little reaction occurred even when the wire was buried under a cast for several weeks. The author states that fine rustless steel wire is stronger, smoother, and less irritating than any other suture with which he has had experience. He regards it of

most value for plastic operations for the closure of cleft palates, colostomies, and various types of fistulæ, but recommends it also for ligation in cases of infected wounds

In summarizing, he says that chromic catgut may produce allergic reactions in the tissues which retard healing and may lead to wound disruption, and that No oo plain catgut may be extruded from the skin many weeks after its insertion Silk is still the suture of choice for use in thyroidectomies, but annealed rustless steel wire is worthy of more extensive trial as a suture and as a ligature in septic wounds. CORNELIUS J KRAISSL, M D

The Question of the Filterability of Prussia, G the Tuberculous Virus in Surgical Tubercu-Iosis (Sulla questione della filtrabilità del virus tubercolare nelle tubercolosi chirurgiche) stal di chir, 1934, 13 1075

Prussia states that it is still debatable whether the tubercle bacillus has an ultravirus, and that the interpretation of experimental lesions produced by cultures or tuberculous material is also very uncertain In reporting experiments which he carried out to attempt to clarify some of the obscure problems in surgical tuberculosis, he describes in detail the methods he used in obtaining the tuberculous material, culturing it, filtering it, and injecting it into animals. In twelve instances the material used consisted of pus from cold abscesses, in two instances of exudate from a tuberculous empyema, in one instance, of exudate from orchitis and epididymitis. and in one instance, of the urine of a patient with renal tuberculosis To control the specificity of the anatomicopathological lesions of the ultravirus, two guinea pigs were inoculated with a filtrate of diagnostic tuberculin Therefore seventeen guinea pigs were injected with filtrate, seventeen with ultrafiltrate, and two with tuberculin In each case senal transplants were made to a total number of seventy-six animals Prussia concludes that the lesions found in the splenolymphatic system were caused, not by a virus, but by toxic elements in the filtrate and ultrafiltrate as he discovered similar lesions in the animals given injections of diagnostic tuberculin EUGENE T LEDDY, M D

Jackson, H, Jr, and Parker, F, Jr Agrar tosis Its Etiology and Treatment Agranulocy-England J Med , 1935, 212 137

The authors discuss agranulocy tosis on the basis of the literature and 103 cases which they have observed themselves They state that the literature is at times confusing, opinions are divergent, and recorded data are not accurately tabulated. They conclude that while it is as vet impossible to state dogmatically whether agranulocytosis is to be regarded as a disease entity or a syndrome, the occurrence of such a disease entity appears probable The etiology remains uncertain, but amidopyrine and related drugs seem to favor the development of the condition in certain cases \*

phold times

The pathelogical changes in the boos marrow consist of arrest of maturation t the stem cell stage. Later in the course of the condition the previousl exacting stem cells are replaced t extent by plasma cells and lymphocytes

In the treatment, careful asepas, adequate nursing, and intelligent general care of the patient are resential. At the present time the best method of

stimulating recovery of the bone marrow is the intraminecular or intravenous injection of pent nucleotide

In conclusion the authors state that until the nature ethology and pathology of agranulocytoids are determined definit by the diagnosis, treatment, and prognous of the condition must remain said fudice NAMES & LABORATOR MD

#### Willis, R. A. The Structure of Teratemets. J Palk & Backeriel 935, 40

Teratomata have been attributed to internal twinning, the problemation of dialocated or super numerary blastomeres or other early emberone cells or cell groups, the growth of fertilized point bodies, the parthenogenetic or ephenogenetic proliferation of general or extragonadal germ cells, and developmental errors affecting the primitive streak and carry axial structures of the embryo None of these theories is wholly sutlatectory or has been definitely

proved Willis reports a study in which fourteen teratomats were examined by the senal slab method and the distribution and relationship of the component

treates deterraned

He states that in the elentification of many I the times in these growths difficulties are encountered An inthuste knowledge of the histology of both adult and emberonic tusoes is necessary Immature standular and neuro-coathehal tuenes are readily confused with one another. Unless accompanied by hair follocles or cutaneous glands, strainfed ages more extherium cannot be adentified as endermal since aquamous metaplasia frequently occurs in the sland for components of teratomata. Function in teratomatona timues - secretion, hermatoposona, movement, nervous activity—is of interest in connection with the problems of the prefunctional and functional differentiation of timeses

Teratomata of the tests are almost always mangnant With rare exceptions the mahynancy involves ma y or all of the component tasses though per hapa in different degrees

Most teratomata present no mass f sometic axia tion, segmentation, or delarmnation of germ layers They possess no organs or true sometic remons They exhibit an anothelous excess of certain com noments and an anomalous absence of others, ab normal mixtures and relationships of tuestes, and the co-custence of turners of widely different degrees of maturity Because of these facts theories based on the idea that teratoms is homologies a th fetus must be rejected. Therefore the twin inclusion and parthenogenetic hypotheses must be rejected

Incomplet examination of a teratoma may give me to the erroneous impression that it resembles from Tissue correlations probably similar to those obtalking in normal ontogeny are evident in tentomata 1 arious growing epithelia ppear to melica specific changes in associated plastic mesenchane. Certain glandular epithelia evoke the formation of smooth muscle young central actyous tissue crokes thoudrification tooth development exhibits ha characteristic and complex these correlations, respiratory reucosa induces the formation of cartlage, nervous tissue induces the formation of a mening-like sheath or of pers sheath chrossis, epideruns induces the formation of demois, and or tain mucoul epithelia induce the formation of his-HERRIT F TRUMON MD

#### GENERAL BACTERIAL PROTOZOAN AND PARASITIC INFECTIOUS

Bickel, G. Colon Bacilles Septicecule. A Study of its Pathedrooms and Christal America (La conbeciliose Etade pathogénique et chiuque) Remil de le S um kom 934. P

The important role of the color beciting in conthen channes has been recognized only tikin the less doesn years, that is a pay place the work of lights Boyer on the exterormal syndromer Toda the term color bacillous is applied to acut and subscute septicermias and group of less well deford states indicating a generalized investor of the W gamen by the colon backles the electors localization in the annery tract, the biliary tract or the

NACYCEDS BY MICHE The colon becilios tues change from one form to another. It is extremely mustant to heat, descrition, light, and most antiseptics, and remains with a sater ad soil ver long persods It gres well in all culture media and even in turne. It is batic affected by changes in hydrogen ion concentration les metabolic products incl de ammo acida, am-

month 1sdoi, scatol, and pacsol

The virulence of the colon buciles is normally how, but warnes greatly An arresse in virglence may be due to its association with more virulent bacteris or decrease in the vitality of the timber ith believe it is in contact. The tonins studied since they by Gilbert show merked affinit for the nervous system and the gastro-intestinal tract. Viscent to cently has notated an exotoma and an endotoma, the former neurotropic and the latter enterotropic. The endotous causes arreptous of intestinal imitation and durrhose. The exotoxin is found in young cultures, but the endotoxia occurs only is old entures These tomes are entirely independent of each other

The physiological ride of the colon beriffer has never been determined, but it appears that larmful effects are never produced by this becteriors is the absence of abnormal permeability of the intestine The presence of colon bucilh in the blood and their champeton by the amonty or behave tract are but transitory manifestations of change to the interior from the absorption of the bacilli and various

The colon breillus is not the only ucent of into infections of intestinal origin. In about 20 per cent of such infections the enterococcus and less fre toric substances quently. Friedlichiler e hierlich ? strehtococcus ? staphylococcus or a pricing coccus is the invading pythogen Moreover the abnormal permeability of the intestine may be limited to toxins, the term profilose being inabblicable ander each circum

Acute enterocolitis due to the colon bacillus is common It occurs most often in infinits and fre quently assumes in epidemic character. The infecetance: tion may be localized in one part of the intestine It is localized with special frequency in the region of the appendix Whether or not the primary condition is appendictis is problematical. Hawever, the colon bacilly is found frequently in pyclophichity and Theceses following appendicitis and is the organism restrees joing and placed most often in septicing the blood most often in septicing the latest and the blood most often in septicing the septi following that condition Localization may occur also in the bihari passages Blood stream infections are usually due to stasts in the right half of the colon which, like an experimental ligature allows the or gamens to pass through the mucosa and increases

The symptoms of colon breillus septier min, are the absorption of bacterial products extremely Annible Vlarge number of forms of the condition have been distinguished on the bass of either the localization or the dominant symptoms The author enumerates most of the ills that were formerly recribed to auto-intoxication herdaches, dysmenorrhaa and other endocrine disturbances, asthenia psychic symptoms vacomotor disturbances and slight fever and classifies them into urmary, hep tile and nervous disturbances Vost definite appear to be the urmary disturbances in the form of bacillura and pyuna Intelligent treatment requires a preliminary study including most of the tests known to clinical path ology to which may be added a thorough study of

The treatment is long and arduous It should be the intestinal flora and its products directed first to the intestinal disturbance that is to ear the stasis and should consist of the usual regi

mens recommended for spirite colitis

ALBIPT I DIGPORT MD

Sauve L. A Contribution to the Study of Surgical Sauve L. A Contribution to the Study of Surgical Contribution of Exclusive Study of Surgical Contribution Contribution of Surgical Contribution of Surgical Contribution of Surgical Contribution of Surgical Contribution Contributi Septieremia of Exclusively Staphylococcai or Streptococcal Origin Symptomatology (Con tribution a Letude des septicemes chruspicales à staphylocoques et 3 streptocoques exclusivement staphylocoques et a streptocoques excusivement Semfologie) Bull et mém Soc not de chir, 1934,

The author defines septicemias as general infec tions in which there is an intermittent or constant discharge of pathogenic bacteria into the blood stream with grave general symptoms due to the dis semination of the bacteria or their toxins in the viscera He states that in the study of septicæmias

frequent cultural studies of the blood should be made it varying intervals in relation to the chills with the use of furly larke amounts of blood. How ever, he regards the clinical indings of more importrance in the diagnosis than the laboratory undings, especially when the blood cultures are

Both taphylococcie and streptoroccie septica min mit occur in a fulminating form or a prolonged form Most common hovever, is the acute form negitive developing in a few days or weeks which preses development in the case of weeks an initial stage in which the infection is local, a second stage with the intermittent discharge of bacteria into the blood stream and a final stage of pollution of the blood The stage of incubation is rarely recognized chinically It ends, as a rule, with the first chill Thereafter, the symptoms depend entirely on the manner in which the bacteria are

In cases of streptococcie septicæmin two very disseminated in the blood unfavorable signs are a painless gases distention of the abdomen and the occurrence of organic changes with congestion at the bases of the lungs, anuria, extreme acceleration of the pulse rate, enlargement of the liver, and a subicteric tint of the skin When either of these signs appears, death is to be expected in a few days. The favorable prognostic sign is ces sation of the chills vith gradual slowing down of the

A rather rare form of streptococcic septicemia is observed in certain pyrmine and a chronic form with certain medical diseases Of the three enolog pulse rate ical factors—ceptic infection, infection at operation, and post abortal infection—the last is the most

The staphylococcic septicamine are of two main types—the acute which resembles the streptococcie in its 51 mptoms and the septicopy amic type. The dangerous latter is characterized by metastatic abscesses, cutaneous eruptions, phlebitis, arthritis, and periods of remission which may be followed by acute recru I third type-7 prolonged form with multiple abscesses—may be distinguished for the diagnosis of this type the same strain of staphylo coccus must be found in all of the metastatic ab scesses. This type is especially serious when the

abscesses occur in the faciobuccal region

Tularemia A Consideration of 123 Cases, with Observations at Autopsy in Kavanaugh\_C N Irch Int Med , 1935, 55 61

Of the 123 patients whose cases are reviewed, 60 vere males and 54 were females ports the autopsy findings in I case According to deaths, a mortality of 4 per cent his classification, 108 of the cases were of the primari cutaneous type 6, of the primary ophthalmic type In 58 cases in which the incubation period was determined defi and 9 of the cryptogenetic type mitely, it averaged four and a half days

Sittem cases preented palmonary involvement. The breat is as involved in 2. Throubly in the velos were found in 1 case. Hearthy was a complication of cases Andominal symptoms were prominent for 5 cases. Peritorities was present in costs. Delni un was a prominent feature in 6 cases Anti mada remaining the complexition for case. The case of the complexition for case of the complexities of cases. And made remaining the cases of the complexities of cases. And cases are the complexities occurred in the affected eye? Fundant decryocytities occurred in the case was convex of the case which is considered to the decrease of the convex of the case was convex admitted. Solventaneous neglicies were present to 36 cases, and a containous respitation occurred in 3 cases cases, and a containous respitation of the cases was and containous careful on a case.

(8 y per ceat)

The author gives brief review of the literature
and discusses important facts pertulaing t the
literary epidemiology pathology disgnoris, and
treatment of the condition

OF ALTER H N DARK M D

Spoerti, R. Investigations on the Action of Aradoble and Advoke Ractoria on the Survivage Small Intestine of the Rabbit (U teruschappen seher de Wirkson accrobe und acrober Sakteren and den seberisbended kanneken Doousdare) out Zurck Desertation

The difference is moved to like of acrobic and anaer obic beath muses the question whether as consequence, different substances, waying from one anxient the continuous properties in the anxient that the continuous properties in the anxient that the continuous properties in the continuous properties as well as the continuous and the continuous and the continuous and the time description is severely in the investigations on which that dissertation is based or with include the

The products of metabolism contained in different bacterial cultures exert any action on the amount musculature of the small intestine of the rabbit which differs from the action i sterile

bosilion?

2 Do these actions of decomposition products
differ only for the its large groups, or can differ
ences in acts its be demonstrated even to the differ
ent kinds of beateria?

3 Are the possible differences only quantitative

or be qualitarive

4 Is the result affected by the age of the culture

5 Does the composition of the nutrient medium

cart an influence

6 Is the action of the metabolic and products

6 Is the action of the mytatonic end products formed in the medium exerted on the number cells directly or by way of the sympathetic nervous system.

In his studies the author was of course unable to investigate the authorics of definite chemical compounds. In such investigations it is necessary it recognize the fact that is are always dealing with a matture of substances. Witherefore obtain only a communition effect, and if the santagenizar sanistion a balance, this may be null in spits of the presence of active substances. However, there is also the possibility that one product may be much stronger in its physiological action than all of the others

The pparatus used by Spoerri was a metification of the apparatus of Guggenheim and Loeffer. The investigations were carried out on the surviving small intestine of the rabbit Oxygen as latroduced into one end through a capillary tube and the other end fastened by fine thread to the arm of a recording apparatus. The preparation to be insted was brought into contact with the latestine mixed with Ringer' solution. In the investigations on the infinence of age, meat extract prepared by one and the same method was med in the preparation of all of the bouillous in order to avoid difference in the material of origin. The inoculation of this fluid with fresh is er-bouillon cultures of the same strain of bacteria was done for one series at the same time and the culture obtained after incubation for one, three, six ten, and twenty days were used for the experiments. For every series of experiments a certain quantity of the same bouillon was removed on each of the days mentioned and kept pader the same conditions for use as a control. For the prepa ration, I macerates and filtrates, Spornt employed s liter retorts with large quantities of culture which had been inoculated with the same strain. The faculation period vaned up to ten day. In the preparation of the filtrat the culture as cratrife gahard, rendered free of bacteria by means of a elts filter and then used immediately. The central ugate was washed three or fou times with physiclogical sait sciution until the yellow that of the centrifuge fluid had disappeared. It was then saised cm of stanle water and from with from to three or four times. The precipital from 4 hiers was diluted to not one with physiological sult saletion and this finid browshit rate contact with the intentine in Risger' solution in amounts of from 1

The effect of these different preparations on the activity of the historiane is studied. It is regard to the amplitude of contraction, toams, and frequency, after excelling the movements of the stateme in Ringer' solution, alone and following the undertake of except places, pickerspin, and drendan at distinct excitation of the paratheteris, special least of the influence on the nutrients of stems boulders in the form of cystem-perform boundon and cystem process boundon and cystem pricess boundon.

0 0 000

The results of the expensions with the different hinds of boullon were in general sentent. When all three hinds of boullon err osed, as falled decrease in contraction impriseds and towns was followed by receivery in a back the contraction made in above normal and the towns reached sortful. In general, the frequency resulted into-borized in general, the frequency resulted into-

firmed Comparative experiments showed that there typical reactions were due to active substances already persent in the most extract and not the added cystels, peptons, or glacone. The bombon affect underlay the action of the further addition.

of adrenalin pilocarpin, and acetalcholin assumed that the action of these drugs is exerted on the muscle cells not directly, but by was of the Honever inoculation of the nervous elements described nutrient media with a culture of the paraanthrix bacillus showed great differences between the nutrient media and the exstein peptone bouillon culture. The addition of the drugs named could no longer suppress the effects of the distein peptone products. The exstein peptone cultures contained at first paralyzing substances. I wents day cultures contained tonic substances. I one day culture was After the tirst week, the without definite effect cystein glucose bouillon culture exhibited an action increasing the contraction amplitude and after the minth day an action increasing also the tonus. The peptone bouillon culture showed a slightly tome action. Therefore a paralyzing action was present only in the case of cystein bouillon cultures and a tonic action in the case of old existen peptone boullon cultures and young peptone boullon cultures. Comparative tests with neetylcholin, pilo carpin and adrenalin showed that the less toxic substances which were present in a para anthrax culture exerted their influence on the nervous system, whereas the mechanism of action of the substances with a strongly paralyzing effect was not explain able (it was impossible to determine whether the action was direct or indirect). The active substances passed over into the filtrate, but vere not demon strated in the macerate

The author is inclined to ascribe the paralyzing action of his cultures to various decomposition products produced by the para anthrix bacillus but

not to the specific part anthrix toxin

Investigations carried out with the Novy bacillus of malignant adema wielded results that were essentially the same as those obtained with the para anthrax bacillus. The active products could be obtained from the existen peptone bouillon culture. The macerated bacteria had no action. The filtrate had the same action as the whole culture.

In investigations with the anthrax bacillus (bacillus ehauvoei) a cystein peptone bouillon culture used at the highest point of toxicity produced as did also filtrates of this culture a tetanic effect. The production of this effect continued until the tenth day of the culture. The culture then rapidly became ineffective. The influence was exerted by way of

the nervous elements

When tetanus cultures were used the intensive action of the cystein peptone bouillon culture (paralysis) was present only during the first few days and then vanished, a fact proving that the cause of the paralysis was not the true toxin since the latter did not reach its greatest activity until after ten days at a time when the peptone cultures were almost inactive

Spoerri discusses the action of methylamin, indol, and diamine

The investigation of acrobic bacteria by the same method yielded the following results

The one day old and three day old cystein peptone bouillon cultures and the one day old exstein glucose bouillon culture (paratyphus Gaertner) produced paralysis. In the case of the first, the reaction occurred on the addition of as little as o command in the case of the last on the addition of some all is therefore apparent that in these experiments also the degree of the paralyzing action paralleled the peptone content of the bouillon and was not dependent on the quantity of toxin

Investigations with fowl cholera showed results that differed only slightly from those obtained vith sterile bouillon. On the minth day, the existen peptone bouillon culture in an amount as small as a cini via capable of causing a marked paralysis of the intestine. Up to that time a stimulation was manifested. In these experiments also the dependence of the amount of toxic substances upon the

peptone content was apparent

the findings may be thus summarized. When sterile bouillon was used the course of the curvewas always the same whether the bouillon con tuned exstein plus peptone or glucose or only pentone. In the end effect there was a very slight increase in the contraction level whereas tonus and frequency remained at their initial levels effect was brought thout through substances con tained in the unmodified ment extract. The age of the bouillon was without special influence on the result. As the bouillon effect was always eclipsed by the effect of the added drug, an injury to the muscle cells could be ruled out with certainty. When grown cultures were idded this picture changed completely. Under these circumstances an important part was played not only by the age of the cultures but also by the special additions to the bouillon Moreover there appeared certain differ ences in mode of action from bacterium to bacterium in respect to the direction and the degree of the change, but especially in respect to the minimal dose by which the typical reactions were elicited One clear fact demonstrated was that with all bacterial additions the eastern peptone cultures showed the most intensu action, in comparison for example, with the cystein glucose culture. In the case of the cystein peptone culture the most intensive action consisted chiefly of a general paralysis which appeared either on the first day (Novi tetanus, and Gaertner Incilli) and disappeared soon (sixth day), or appeared only with older cultures (sixth to minth day) (para anthrax, fowl cholera An exception was found only in the case of the anthrax bacillus, by which the amplitude and frequence of the contractions were diminished and the tonus was increased (tetanus), a picture which was produced only by twenty day-old para anthrax cultures. On the addition of small quantities of culture there were bivalent actions, an increase of the contraction amplitude, sometimes also an in crease of tonus (fowl cholera Gaertner, and Novs bacilli) either with old cultures (twentieth day in the case of the para anthrax bacillus and the anthrax bacillus, fifteenth day in the case of tetanus bacillus, and math day in the case of the Gaertner bacillus; or very young cultures (fowl cholera bacilli p t the third day)

I difference bet een the ction of amerobic and aerobic bacilli as regards the production of minimal active doses was not apparent. The cratein-clurose culture, which contained only one-tenth as much peptone as the cratein-peptone culture, produced chiefly an increase although it furnished excellent conditions for growth of the bacilli However there was lack of the peptone necessary for the elaboration of toxic substances. The author is inclined to asembe the action of his cultures entirely to the production of lower decomposition products of protein II calls treation to the opposite behavior of the earl formation of toxic sobstances in the culture in contrast t the sice formstson of the specific toxins. He states that for the elaboration of the active toxins in the cultures oxygen is not necessary it determines only whether the means is given to living creature t break don protein bodies in this or in that w y The ways are purper ous (decarboxylation, splitting off of mino-acids with almultaneous reduction red ction and deaminisation, hydrolytic de-aminisation, alcoholic fermentation) Of the products arising therefrom, which are sumerous and varied, the mines, methylamine, dimethylamine, trimethylamine, and diethylamine, are of the greatest physiological importance next t histamine. The pharmacological action of the primary secondary and tertiary amines consists mainly of a central action, parcous and paralvals. The higher amines possess sympathicoms metic action mimilar to that of adrenation In general It may be said of the ction of products of protein decomposition that excitation appears after small doses and paral six after large doses (Weschardt) The bavalence of the actions was shown also in Sports 1 vestigations Excitation was manfested on the delition of culture with shight activity (fresh and very old cultures) and parely an on the addition of culture with marked activity

From the investigations at histers and waterosts of appears that the active makatanes are not present in the bothen of the bacterus but are to be found the filters. The simulating effect is produced, not by direct ctoon on the muscle cells, but by an indurest action on these cells produced through the nervous elements. Whether the paralyzing action of the larger does black his depends upon mercus action has not been determined, but the possibility industry the muscle cells muscle consideration.

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While the results have been good in some of these other conditions, ther have not been comparable to the results in Rechinghaissen theses Moreover facts seemingly contraderory t. Manoff theory have been recognised. There are cases of Rechinged theory of the second of the second of the second of the second through the second of properations in It has been found also that results shailar to those of parthyridectomy can be obtained by single enjoir they obtain the second of th

In an effort to explain these facts and study the function of the parathyroids the author performed series of auneteen experiments on rabbits and dogs I some of them he braised and layared the thyroid and parathyroids without removing them and without more the vessels and nerves, and in others be creabed or sectioned the acrees supplying the part thyroids. It found that simple operative treams and reaction of the vagosympathetic trunk in the neck did not cause any changes in the structure or function of the parathyroids, but that perfertered sympathectom of the superior thyroid artery or removal of the superior cervical gazghon was fellowed by temporary decrease in the calcium context of the blood due probably to decresse of para-AUDREY COM MORNIE, M D thread function

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femenan, 934.3 654.
The treatment of lympherdenia by plants operation Sea H Gittins and F R Frantia. Birt M J. 934. 46.
A case of accolustic docum belonging to the Heights group F G B Lattertand H H Savetterm Laurit, 934. 47. 444.

#### SURGICAL TECHNIQUE

#### Operative Surgery and Technique: Postoperative Treatment

Sternimition of the kands before operation. P. STR. W. UNIV. Chirary, 034-6-3-5. Medication of the method of Zeller in the treatment of syndacty into R. Palm. Uns. tial chicker. 934-3-055.

Cher 914, 60 359
The ride of glucose in surgery P B Bat Har Vett
Orleans M & S J 1935 87 445

The treatment of bed sore with clastic achieves phaster T J A Caury Box M J 915. 105

The occurrence and treatment of thembose and on bolism R Boxquists Factors of Themp 934, 20

htudes in portoperative changes of the body funds. The emotic pressure P Cazz uz disch stal dichir 034, 2 575

chir 934, 3 575
Stadies on postoperato bleod calcum Edity obset
ations R Liberts to 1 J to J de chir 935-

Arete postoperative dilatation of he storach dutter bances of the extrameral represent narrows system, at Heapt at explanation. \ \ \ est \ Shera lek 904 10 207

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Insect bite followed by gas gangrene in a diabetic, report of a case J R BARRY New England J Med, 1935, 212 198

On the treatment of tularæmia L FOSHAY

State M J, 1935, 31 21
The problem of the septic hand R KENNON Brit. M J, 1934, 2 1189

Immobilization in the treatment of suppuration M

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Animal charcoal in the treatment of infections E Sr JACQUES Med Rec, New York, 1935, 141 14

Autovaccine R. I REUND Schweiz med Wchnschr, 1934, 2 921 Bacteriophage C H DEWAN and A D RYAN Guth

rie Clin Bull, Sayre, Pennsylvania, 1935, 4 110

Paralysis following repeated serum injections E HAHN Klin Wchnschr, 1934, 2 1309

#### Anæsthesia

Inhalations of carbonic acid in surgery M Robin Presse med , Par , 1934, 42 2046

The behavior of certain reflexes of periosteal and articu lar origin in various types of surgical anaesthesia. R Pazzagli Sperimentale, 1934, 88 635

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gen, 1934, p 987

Evipan sodium for small operations S C G Roy Indian M Gaz, 1934, 69 690

Sodium evipan anæsthesia, a study of thirty cases E

S CHELLAPPA Indian M Gaz, 1934, 69 685 What one may expect of sodium evipan Presse med Par, 1934, 42 2101

Evipan as an intravenous anaesthetic R JARMAN

Proc Roy Soc. Med Lond, 1935, 28 341
A discussion on evipan Proc. Roy Soc. Med, Lond,

1935, 28 341 Clinical observations on the use of evipan K M HEARD Canadian M Ass J, 1934 31 617

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Sodium evipan in otorhinolaryngology R C I AMAR

ANTE. Folha med , 1934, 15 389 Avertin nnæsthesia G Lundh Svenska Läkartidnin gen, 1933, p 232

Signs and phases of cyclopropane anæsthesia F T ROMBERGER J Indiana State M Ass, 1935, 28 18
The use of endorm sodium anæsthesia in clinical prac-

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Comparative study of the resorption of novocain and percain following various types of application L HAIBER 1934 Tuebingen, Dissertation

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A tracheotomic ether insufflation tube G Tucker Ann Otol, Rhinol. & Laryngol., 1934, 43 1132

Explosion of an anæsthetic apparatus O JORDAN Schmerz, 1934, 7 1 Spinal anæsthesia W L WAVER. Illinois M J, 1935,

67 45 Spinal anæsthesia F Rusca Helvet, med Acta,

Spinal anæsthesia with light percain O WINTERSTEIN

Beitr z klin Chir, 1934, 160 92 Spinal anasthesia with percain by the Jones method

O WINTERSTEIN Helvet. med Acta, 1934, 1 333 The margin of safety and technique of spinal anæsthesia

S F FAGAN Internat. J Med & Surg , 1934, 47 514
Splanchnic anæsthesia for gastrectomy J CHARLES-BLOCH. Bull. et mem. Soc nat. de chir, 1934, 60 1310

Presentation of apparatus for local anæsthesia CHARLES-BLOCH Bull et mem. Soc. nat. de chir, 1934, 60 1324

#### Surgical Instruments and Apparatus

Laboratory testing of disinfectants L P GARROD Brit M J, 1935, 1 5

Gags and tongue forceps. W S Sikes Lancet, 1935 228 87

#### PHYSICOCHEMICAL METHODS IN SURGLRY

#### Rountgenolegy

Y-rays and boalth. H 1 Ours. Rimols M J 015

67 76
The role of reentgenology in the practice of medicine
W J Mangers Verginis M Mooth 015, 6 550
Verticols and the of routing missages in internal
medicine F M Growner. 99 Misrok, Leboussa.
A sterhalmble seentgenoccopic series L Gross at

Pull et mêm Soc. nat de chr 1934, 60

An automatic stabilizant apparatus for radingraphy
L Garravanti Radiol, med 21, 181

L Gattavutst Radiol med 934, 185
A sosphifed sechanical method for minoraphic menstration and localisation II F Kristiz, Radiology 935,

A syrroge for intraoral administration of Epochet J.
Rarr. But I Radiol out A r.

RAFF Brit J Radiol 935, \$ 5 Comparati evaluation of aliodan, assuman hopparas, and arthropen H Letta Med Rec New York, 935

14. 76 The dangers of rossigenoscopy and methods of potention arguest them III The protects power of the barrons field shounds C I L. CLILLE, B T. LEIDT and B R. KIRKLIN AN J. Rossigned 1914. 18 R. simple nothed of areas root-groupstay on the treet posture J S. Fortov. Brit. J. Rubol. 1918. 8. D. Cardagation and errors of Gerden bedes with the lector.

Localization and removal of foreign bodies with the help of the fluorescape Scat LEE STRUE. Leatrain f Char 934, p 300 As apparatus for localization of metallic foreign bodies

A POPULTATION CONTINUES OF THE STREET OF THE

An 7 psystody of the disphragm 1 Its correlation body succhance in children II Its applications to the treatment of policosary telecroloses L. T. Baow. J. Book E. Jesun Sarg. 935 7 13. 35

Heoblera's method of continuous irradiation of the

enters body for processing semplasma. L. F. Ca. Vrs. and R. S. MacConn. Am. J. Rocatgroof. 914, 3. 654 [468] Volume increase of bacteria from X-ray femolasise T. J. Barris. Radiology. 935, 54. 3.

#### Redium

Introperitoneal and perentaneous radium therapy P. Straumaure Verhandi d Ameerical Kong Radiol 934, 158

158
The surpoid use of radium E. Fracum. Texas State
J.M. 915 po 555
The padeutions and inclinations of radium in the treet

ment of cancer M. Curtura, J. Med. Concessit, 933.

The protection of radium workers from gramms radiation.

The C. Eave G. E. Berri, and R. Bishu. Red. J.

O W C EATE O E BEEL, and W FINE Box J Radiol 435, 8 S. States on the topographic bases for the determination of dones of breadurino in the terms C J GA so and Marco at Verhandl of a internal Komp Radiol 1811.

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The degrees and localization of feeding bed — xis electric waves. G. Apraviana in Zestralis f. Chr. 1934 p. 764 — Apralmentary study of the effect of artificial feets spen

operation of the state of the s

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The mere field of redirection for the use of short was
therapy E Rass Verhand! d disternet kong Radiel

944. 508
Short was distheying and its one in surgery M. H. and A. Low. Dectache Exists? ( Chr. 933, 43), 3 f (407). On the alteration in the penaturity of cells because radiation produced by rold and ambrelokesh. J. C. Morrison, 1874, 1. Radiol. 1944, 8, 3.

#### MISCELLANEOUS

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#### Clinical Entitles —General Physiological Conditions

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Rotatges studies on the fat of calcum in the boses of retained dead rabbit fetures. J. N. La. Law. ad P. C. Hooms. Vin. J. Roca sensel. 935. 33.

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The general and hereditary factors of congenital deformities E. G. A. RARRAY Fisch f. Geburtah. Cynnek. 14. 09. 57

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The productor of spina bidds occults in history with

The nonderice of spins highly occults in highest with and without course. I W. Landy Um. J. Des Child 935: 49 5 Bilateral anomaly of the great tac. P. Dansare. Rev d'orthop. 934, 4. 607. Hereditary pathology and surgery. A. Ritters. Vici.

Kira 934 955
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Sorg Gyner & Olat 035, 60 17
In second case of the injury D Science Orms-

htpats, 934, 4 4 4
The valve of pains the recognition of diseases F Kill
help I has Libr 934, 70 400
The serieton and pain J R I LARBOVER Beh M J
[77]

The sergeon and pairs | K | LAKES | La

BRIL J. SOMY 435.

Excuplication and spasmophilis. O. Kirscer Friel.

4724

d na. Vicel. 914 47. 227

Hencorriage in relation to shock. > J. Frii.

[472]

1842 Suny. 935. 104. 474

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Permanent extirpation of the nails in chronic onychomycosis K P A. TAYLOR. Am J Surg 1935 27 145
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with observations on the formation of inclusion bodies A II DON'TE and C A McGALGHEY in rilro Path & Bacteriol, 1935 40 147

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Agranulocytic angina treated with pentnucleotide E J SMITH Lancet 1934, 227 1219

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No 3-4, 97
Bological problems in chemotherapy R Young and F MURGATEOTO Lancet, 935, 825, 9

Experiences with vaccore treatment for sorgical discusse.

I Puntriowicz Zestraibi I Chir 944, p. 37
The bloops: I sepect of surgery R. Klaire Med. Welt, 924, p. 27

934, P. 27
The determination of the resistance of the hody by surgery F SCHOTHER WALDMEIN Arch I kin Chir 944, 79 6 5
Surgical shock A CLARK Glangew M I 1 944, 1

General Bacterial, Protosoan, and Parasitic

Infections
Surgical septemble G Marrier Bull et mite Soc.

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Therepeate me of concentrated actual photococcus acress of the New York Soft Department of Hank in cryptoc gath temptococcustus and occupy white of shadon A S Secretar, M. J. Section and W. J. MacNead, 4rch Surg, 034-39

Tularierus A commércation of 3 cases, with observations at autopsy in one C N Ka NACOR Arch Int Med 935 \$5 0 [475]

Med 935 55 0
Investigations on the action of analysisc and navion
becters on the surviving small intestine of the ribbit
R Sponsax 954 Zerich, Description [676]

Generalized Hantomycoms with localization in the patternes D Monro Rev Asso used argent 914 42 pb6

A new intravenous method of combating infections the use of natravenous carbon: A Towaran and B Mitwirnan, Prese and Par. 914, 4, 1007

#### Duction Claude

Studies in the embryology and histology of the duction glands G A R vern Med Rec New York, 915, 14

Acrescraly and sphuchsomegaly F Rosexus Lancet, 435 sh 25

Addresses to 6 the potentiary gland, with special reference to the potentiary basephiloses of Custong W Soffice Rmi J Surg 9,15 500 [Surg 9,15 500] Beauphilo: advance. (privatary besoplohess) report of

case, with chical improvement of systems manifestations after brackston of the printity M. G. Wort, J. R. Moore, and B. R. Youwe. Radissopy. 935–84, 31 Investigations on the relations between the symmetric netwon system, the blood calones and the parathysisk. M. TARLERIA Arch. ital. thicker. 934, 35–159. A case of federals between 50 of the extremelies and pris-

reason in the state of the stat

#### Surgical Pathology and Disgnosis

A standardised technique for the blood sedmentation test. M. M. Windmont and J. W. Laurenning. Am. J. M. Sc. 915, Sq. on

#### Esperimental Surgery

Expenses tal studies on the use of bases extracts for bemostates. M. Dameraat. Ann. tal. di cher. \$14. 1. 080.

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#### CONTENTS

1	Index of Abstracts of Current Literature	111-V1
II	Authors of Articles Abstracted	V111
III	Abstracts of Current Literature	505-573
IV.	Bibliography of Current Literature	574-598
v	Index to Volume 60	1-XXV1

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# CONTENTS - JUNE, 1935

# ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK		SURGERY OF THE NERVOUS SYSTEM	
		Brain and Its Coverings, Cranial Nerves	
Head THÉODORESCO, D, and HOFER, O Cancers of the Cheek	505	CAIRNS, H, and DONALD, C The Diagnosis and Treatment of Abscess of the Brain Schiott, A Suprasellar Craniopharyngioma	512 512
Eye  RAMSAI, A. M. Clinical Science and Ophthalmology O'BRIEN, C. S., and LEINFELDER, P. J. Umlateral Exophthalmos  CHANG, L. W. Dislocation of the Lens PI, H. T. Subcapsular Cataract in Osteomalacia.  PI, H. T. Cataract Among the Chinese  DUNNINGTON, J. H., and MACNIE, J. P. Detach ment of the Retina Operative Results in 150  Cases  Ear	505 506 507 507 507	PFAHLER, G E, and SPACKMAN, E W Further Observations on the Roentgen Treatment of Pituitary Tumors  FRAZIER, C H The Surgical Management of Chron ic Subdural Hæmatoma  Dolgopol, V B, and Neustaedter, M Meningo-Encephalitis Caused by Cysticercus Cellulosæ  Spinal Cord and Its Coverings  Bellucci, B Roentgenological Visualization of the Ependymal Canal in a Case of Hydromyelia  Fletcher, E M, Woltman, H W, and Adson, A W Sacrococcygeal Chordomata A Clinical	512 513 514
Howard, R. C. The Window Operation for Hæma toma Auris and Perichondritis with Effusion	508	and Pathological Study	515
FINE, A. Oculomotor Nerve Spasm in Gradenigo's Syndrome	508	Peripheral Nerves	
KEEN, J. A. Chinical Observations on Chronic Deaf ness in Children	508	SARROSTE Isolated Tumors of the Peripheral Nerves	516
Nose and Sinuses	<b>J</b>	GRENET, H, DUCROQUET, R, ISAAC GEORGES, P, and MACÉ, M Neurofibromatosis with Cu taneous and Bony Changes	516
TILLEY, H. Chronic Pyogenic Inflammation of the Antrum and Other Accessory Sinuses	509	Sympathetic Nerves	
Mouth VEAU, V The Skeleton of Harehp Pharynx	509	CAPORALE, L. The Dynamic Hydronephroses and Sympathectomy of the Ureter  TABANELLI M. Investigations on the Relation Between the Sympathetic Nervous System, the Blood Calcium, and the Parathyroids	
MARTIN, H. E. The Fractional or Divided Dose Method of External Irradiation in the Treat ment of Cancer of the Pharynx, Tonsil, Larynx,		SURGERY OF THE THORAX	57:
and Paranasal Sinuses	564	Chest Wall and Breast Lupper, E. H., and Baker, A. H. Diffuse Intraduct	
Neck  KECSKÉS, Z Advantages of High Tracheotomy  CANELO, C K, and Lisser, H Two Cases of Child  head Newsdays, Reported for the Revisers of	509	Carcinoma of the Breast  LEVIN, I The Relative Value of Surgery, Radium, and Roentgen Therapy in Carcinoma of the Breast	51
hood Myxædema Reported for the Purpose of Emphasizing the Importance of Bone Age Studies	510	HUTCHISON, R. G. Interstitial Radium Treatment of Carcinoma of the Breast	51
Kallen, L. A. Vicarious Vocal Mechanisms The Anatomy, Physiology, and Development of Speech in Laryngectomized Persons	f 510	O'MOLODI, IC II, AUG FILLHER, I. N. 2VD   Danned	
Tucker, G Cancer of the Larynx Observations is 200 Consecutive Cases  Tabanelli, M Investigations on the Relation Be	511	m venous Pressure After Thoracoplasty, Its	:
tween the Sympathetic Nervous System, the Blood Calcium, and the Parathyroids	e 572	FRIED, B M Bronchiogenic Cancer Combined with Tuberculosis of the Lungs	1 51

ív	INTERNATIONAL	ABS	TRACT OF SURGERY	
JOHNN, E. P., MORALLY SA	and SEARPE, W. C. Prunsty Pul- rcores	Ştg	RANKIN, F W Oracled Perime-Abdominal Ranco- tion of the Rectum and Rectorguesi	5.5
Anatorny of Schuman, W muscy Frimmals J	tearthina The Expérimental Pathological of Pernandita Heart Dassas Complicating Preg  The Management of Pregnant th Heart Dassas	542 120	Liver Gall Biadder, Pencrose, and Spison DERICH, L. A Contribution on the Treatment of Circleson of the Liver by the Talent Operation DARIE, M. Repture of the Association Systems Without Known Cause Spontaneous Replace?	
PRINTON O S ADMITONIC, A C Indications ment INCEL, J. A C (Europhages	d Mediastranan Swallowed Foreign Bodes Gastricial Stresses of the (Zeophagus, for and Lata Results of 1ts Treat Lase of Pranary Tuberculous of the	tan 1 tao	Miscalineous Forz, J. Plafal Aldonainal Cerdificus In Chil- hood Rymorz, A. The Assistated Changes In the Here as Various Systemens of the Right Eds of the as Company of the Children of the Children Herman Miscalineous Parieties Horise—Herma Miscalineous-Parietials Dectre, Brosseles	27
FORTE, F Co Demt of th Terrapolar, P	Duphragmatic Herms agential Herms Through the Right a Disphragm E. Disphragmatic Herms at the University of the Control of the	1- 2	CAPRILIN, Y Cryptogenetic Pentonika Camed by Paramotocci and Malice Bacteria GYPECOLOGY Uniqua	s.

177

514

3 5

515

4

5 # 7

527

230

#### REGIRE, L. G., and Excess, J. B. The Incidence of Histon Herois in Preparat Roman and Its ANDREA R DEST Report of the Chest Terror Recours

#### SURGERY OF THE ASDOMEN

Serra Scance

Thornes Stometh

Gamiro-Intestinal Tract Nonzeneze E Complex tens of Foreign Bodies to

the Stometh WHERE G Collectors Inquiry by the Fellows of the Assecution of Surgious into Gestroppuni (Tierre tone

Gental, A. A. Contribution to the Circuit and Roentgenological Study of Postsperative Peptic

Exercis E S J and Moscock, R. T. Peptic Uker Nature and Treatment Based on Study of 1435 Chies Occurred. W. H. The Place of Surgery in the Treat

ment of Peptic Ulcer VERNOZ, C. RECARD, E. and HOMAR, J. Contradore and Rentures of the Small Intestme in Closed Invenes of the Abdorsen

FRYWARE, E. Intestmal Intraspaception & Caroli Tunor

Worker, J.A. Jeptomortomy with Japanal Alistenta. bon GARREEL, W. B. and LLOTD-D vncs, O. V. Colos-170

tomer Acute Appendiction in Christian STONE, C. 5 I DEBECK E M and ZOLLINGER, R Acute Taber

calous Apparations LARIT F H and CATTELL R B Two-State Abdominoperment Resectson of the Rectum and Rectoupped for Carconomic

#### MORGUE, T. N. Studen on the Movements of the

Uterus 11 The Action of Extract of the Corpus Luteum on the Uteron of the Universitetised Rabbet III The Action of Gonadotropic Ex tracts on the Movements of the Uterus of the Unangsthetood Rabiat

D ym M E Anam F L., Rooms G Kunners, M.5 and Lucavir, R R A New Active Prin ciple in Ergot and Its Effects so Durios Mouley CHARGES H The Hestological Classification of

\$17

579

Cancers of the Uterrae Cerves and the Relation Between the Growth Structure and the Results of Radmo Treatment 117

#### Adversal and Perinteria Conditions

NEWSLADY G W Studies on Turner Formation XV A Fetsform Oversan Teratoma

#### External Genttalla

Krawan, T J and Lougray, O S Radeni Rabel of Veneswagnal Fatola Report of an Unional Case of Everson of the Blackler Through the Fatulous Opening, and Review of Sixty Cents Seen at New York Hospital Dorne the Past Nasty 1 cars

#### Macrilles were

Samo, E. Investigations on Cholice in the Merstreet Cycle and the Perspecal State Carp.on, D. J. Masstruction and Masstral Da-

estions. Moone, C R Hormones in Relation to Reproduc 1208

329 Wang, N. J. and Dours, E. A. The Protessed Ad-monstration of Thurba and Thesial to Male and 530

Frank Rats and Its Bearing on Reproduction Tanna Ran, O Mahmant Melenotic Tenors of the Female Centals

OBSTETRICS		loma Inguinale A Report of Sixteen Cases In	
Pregnancy and Its Complications		and Around New Haven	548
RIGLER, L G, and ENEBOE, J B The Incidence of Hintus Hernia in Pregnant Women and Its Sig- nificance	523	SURGERY OF THE BONES, JOINTS, MUSCI	ES,
TATA, G The Influence of the Hormones of Pregnancy on the Growth of Bacteria	541	Conditions of the Bones, Joints, Muscles, Tendons,	Etc.
LLUSIA, J B Studies on Ammonia in Eclampsia PECKHAN, C H An Analysis of 127 Cases of Ec-	541	Pr, H. T Subcapsular Cataract in Osteomalacia	507
lampsia Treated by the Modified Stroganou Method	541	MANWELL, J P Further Studies in Adult Rickets (Ostcomalacia) and Fetal Rickets	549
SCHUMAN, W Heart Disease Complicating Pregnancy	542	VASTINE, J. H., and BACON, E. P. Osteitis Tubercu- losa Multiplex Cystica, with a Report of Two Cases	549
FITZGERALD, J E The Management of Pregnant Women with Heart Disease	542	VAN DER LINDEN, P Pernarticular Injections of Novocain in the Management of Sprains and	3,,,
Manon, R. The Obstetrical Prognosis of Large Uterine Fibromata	542	Traumatic Arthritis	550
PILLONI, S A Case of Abortion Due to Psychic Trauma	543	PAULIAN, D Research on the Myopathies CHATMET, G Painful Conditions of the Brachio- scapular Region and Their Treatment with Physical Agents	550
Labor and Its Complications		Šejhar, J The Tennis Arm, Its Cause and Treat-	550
HAYES, W I Cæsarean Section A Review of 486 Consecutive Operations at the Women's Hospital, Melbourne	543	ment KADRNKA, S, and MACH, R. Hydromata of the Epi	55 I
Puerperium and Its Complications		condylian and Bicipital Bursæ Containing Rice Bodies A Contribution to the Clinical and Roentgen Study of Chronic Bursitis	
Sasso, E Investigations on Choline in the Menstrual Cycle and the Puerperal State	538	FÉVRE, M The Pathogenesis of Painful Pronation in Young Children, Catching of the Bicipital Tuberosity on the Posterior Crest of the Sub-	551
GENITO-URINARY SURGERY		sigmoid Cavity of the Ulna Aines, A, and Pares, L Condensation of the Semi	552
Adrenal, Kidney, and Ureter		lunar	552
Киввоисн, J С The Surgical Treatment of Hydro- nephrosis	545	JANSEN, M Notes on Scoliosis and Round Shoulders, Their Cause and Their Treatment	552
CAPORALE, L The Dynamic Hydronephroses and Sympathectomy of the Ureter	545	LINDE, F Can the Old View of the Constantly Accidental Origin of Rupture of the Interarticular Ligaments of the Knee Be Saved?	
Gibson, T E Nephrectomy Versus Autonephrec- tomy in Renal Tuberculosis	545		553
Bladder, Urethra, and Penis		Surgery of the Bones, Joints, Muscles, Tendons, Schwartz, A Results of Tendon Suture in the Hand	
MUNRO, D, and HAHN, J Tidal Drainage of the Urinary Bladder A Preliminary Report of This Method of Treatment As Applied to "Cord		SAUNDERS, J T The Etiology and Treatment of Clawfoot Report of the Results in 102 Feet Treated by Anterior Tarsal Resection	553 554
Bladders," with a Description of the Apparatus PFAHLER, G. E., and VASTINE, J. H. Roenigen Diag-	-	Fractures and Dislocations	
nosis and Treatment of Tumors of the Bladder Hinsellann, H. What Does Leucoplakia of the		MENEGAUY, G, and ODIETTE, D The Influence of	
Penis Teach Us?  LERICHE, R, and LUCINESCO, E Heterotopic Osteogenesis Obtained with the Aid of Grafts of		Certain Metals on the Fixation of the Mineral Components in Cultures of Osteoblasts Houang, K The Rôle of the Nutrient Arteries of the	554
Bladder Mucosa in the Muscles or Grafts of Aponeurosis in the Bladder		Calcification of the Medullary Cavity	555
Genital Organs		SEVER, J W Non Union in Fracture of the Shaft of the Humerus	555
ACHENBACH, S The Treatment of Varicocele Cecil, A B The Extrusion Operation for Tubercu	547	ROGERS, W A. The Treatment of Fractures of Ver- tebral Bodies Uncomplicated by Lesions of the Cord	JJJ
losis of the Epididymis	547	CONTIADES, X. I. and POLITIS A. M. The Surgery	555
Miscellaneous		Tibial Articular Surface	556
HANSEN, J Experience and End Results in Injurie of the Urinary Passages	5 547	MISMONTEIL, F The Treatment of the Malumon of the Ankle	557

Ricol Vennis

tenograpky

SURGERY OF BLOGD AND LYMPH STSTEMS

BARY L and RESOUR, H A Critical Study of Ar

Winnerto, P The Blood Changes in Chalcal

Thrombophictate and Their Desproate Largor

LEVEUT J The Deagers of Artenography

Davins, G F 5 Pulmonary Embolum

118

554

142

56

SCHOOL E. vos. Three Years Preliminary Experence in the Treatment of Concer with Extremely

MARTIN, H E The Fractional or Divided Dom Method of External Irraduction in the Treat

ment of Cancer of the Pharyan, Terral, Laryan,

with Regard to the Influence of Fractioning on the End-Regults

7

Hard Romigen Rays

and Parament Scoupes Missesses, G. Experimental Studies on Assault,

DATES, O 1 3 IUMORELY PERSONNESS	2.0	35 5 35 105 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 2
REPECTATION The Cause of Death in Fat Parbolium	\$7	Maxim, J. M. and Maxim, C. L. Mothfed "Con- tant" Receipts Therapy	5
Bleed Transferies		Radram	
Komona, A S The Remostate Properties of the Boor-Blood Mass "Sangos As Experimental Study	150	Levre I The Relative Value of Surgery Radoms, and Roentgen Therapy in Cartmonta of the Breast,	
B CODAS CROW A The Problem of Blood Transfersor	550	Horemann, R. G. Interstitud Radiona Treatment of Carcinome of the Breast	,
SURGICAL TECHNIQUE		CREATERS, H. The Hutological Chemication of Camers of the Uternas Cervix and the Relation	
Operative Surgary and Technique; Posteper Treatment	2072	Briwen the Growth Structure and the Results of Radson Treatment	5.
HYMAR, H T and Tousons A S W Therapeutics of the Intravenous Drap Further Observations	ştio	Miscolianorus	
WARREST H J MARRY Intravenous Injections	1	Transia, W. J. America A. Wilson, J. Woods, R. B. and Others. Descumen on Short Way	
An Experimental Scotts	950	Datherny	ş
DAVIES, G F S Pulternary Embolism	50		
Antisoptic Surgery; Treatment of Wounds and	ls-	MISCHILLEROUS	
fections		Chical Entities-General Physiological Condition	4
Fixes, W. B. The Roustyes Treatment of Car- banelus	30	O'SHADOR TENT, L., and Sider, D. The Etology of Tenterator Shock	5
Ameribeela		Liumur, R, and Liumureo, E. Heterotopic Ontro- essants Obtained with the And of Grafts of Blad-	
PARRADEL R. The Behavior of Certain Referes of		der Mucous in the Muscles or Confu of Aponto-	
Personnal and Articular Origin fo Various Types		reeds in the Bladder	,
of Surpeal Americans Norms, J. P. The Use and Abuse of Spend Americans	gđ	Junu, A., and Crant, S. Experiments on Heterotopic Confication in the Spiters.	,
them;	561	Namoratou G W Stodies on Tamor Formation XV A Fetiform Overlan Teratousa	, pt
PHYSICOCHEMICAL METHODS IN SURGE	<b>X</b> Y	Macrairs, M. T. Heredity in Cancer and Its Value as an Axi in Early Dispusses	50
Rossigmalogy		Universe, R. Melenacyte Reaction of the Prepara- tions of the Pitastary Body and the Urms of	
PPARTER, G E and SPACKMAN, E W Further Ob-		Cancer Patient	55
servations on the Romigus Treatment of Pite- tury Taxons	Ω	Baacco, R. New Studies on Latent Pathological	
RELEDEL B. Roestgenological Vanadisation of the		Marribuso in Tasses Removed from the More Common Operative Fields	57
Ependymai Canai at Casa of Hydromyciu.	5 \$	Gonnov-T yaon, G. Bad Surpeal Rules	Ħ
Owner, A. A Contribution to the Chuscal and Recut- genological Study of Postoperative Peptic Uker	5 5	ACCOUNT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	57
Prantite, G. E., and Vasture, J. H. Roesigen Dong- mont and Treatment of Tumors of the Bladder	145	General Sectorisi, Protossen, and Persuitie Intests	_
CHAUSER, G. Palarel Conditions of the Bracker- scarpolar Rapon and Their Treatment with	340	Ours, P and Lx Bars, L Chronic Staphylococcus Supticopyremias with Prolonged Course	67
Physical Agents	170	Ductions Girado	
BARY, L. and RESOUR, H. A Critical Study of Arts-		Tanantiti M. Investorations on the Relation Bo	
riography	55 <b>2</b>	tween the Sympathetic Nervous System, and	97
LEVEL J The Dangers of Artersegraphy	552	Blood Calcum, and the Farethyrests  Carry C. The Influence of the Prostatic Researce	•
From, W. B. The Rossigns Treatment of Carbineties	56x	on the Formation of Body Callus	573

# BIBLIOGRAPHY

Surgery of the Nervous System  Brain and Its Coverings, Cranial Nerves Spinal Cord and Its Coverings Sympathetic Nerves Sympathetic Nerves Sympathetic Nerves Sympathetic Nerves Sympathetic Nerves Sympathetic Nerves Surgery of the Chest Chest Wall and Breast Trachea, Lungs, and Pleura Heart and Pericardium Esophagus and Mediastinum Miscellaneous Surgery of the Abdomen Abdominal Wall and Peritoneum Gastro-Intestinal Tract Liver, Gall Bladder, Pancreas, and Spleen Miscellaneous  Gynecology Uterus  Conditions of the Bones, Joints, Muscles, Tendom Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations  Surgery of the Blood and Lymph Sys  Blood, Transfusion  Lymph Glands and Lymphatic Vessels  Treatment Antiseptic Surgery, Treatment of Wounds and Fections Anasthesia Surgery of the Bood and Lymph Sys  Surgery of the Blood and Lymph Sys  Surgery of the Blood, Transfusion  Lymph Glands and Lymphatic Vessels  Blood, Transfusion  Lymph Glands and Lymphatic Vess	Adrenal, Kidney, and Ureter Bladder, Urethra, and Penis Gential Organs Miscellaneous  Surgery of the Nervous System  Surgery of the Nervous System  As Coverings, Cranial Nerves and Its Coverings Fire System  Surgery of the Chest  Surgery of the Bones, Joints, Muscles, Tendons, Etc.	588 589 599 590 18 590 592 592 593 593 594
Head Eye 574 Eye 575 Ear 575 Mose and Sinuses 575 Mouth 576 Pharynx 576 Neck 576 Surgery of the Nervous System 577 Brain and Its Coverings, Cranial Nerves 578 Sympathetic Nerves 578 Sympathetic Nerves 578 Trachea, Lunga, and Pleura 578 Heart and Pericardium 579 Eesophagus and Mediastinum 579 Miscellaneous 579 Gastro-Intestinal Tract 579 Gastro-Intestinal Tract 579 Miscellaneous 579 Uterus 574  Adrenal, Kidney, and Ureter Bladder, Urethra, and Penis Genital Organs 577 Bladder, Urethra, and Penis 620 Genital Organs 576 Miscellaneous 576 Conditions of the Bones, Joints, Muscles, Tendom Fractures and Dislocations 577 Conditions of the Bones, Joints, Muscles, Tendom Fractures and Dislocations 577 Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations 577 Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations 577 Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations 577 Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations 577 Conditions of the Bones, Joints, Muscles, Tendom Fractures and Dislocations 577 Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations 577 Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations 577 Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations 577 Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations 577 Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations 577 Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations 577 Conditions of the Bones, Joints, Muscles, Tendom Fractures and Dislocations 577 Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations 577 Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations 577 Surgery of the Bones Joints, Muscles, Tendom Fractures and Dislocations 577 Surgery of the Bones, Joints, Muscles, Tendom Fractures and Dislocations 577 Surgery of the Bones Joints, Muscles, Tendom Fractures and Dislocations 577 Surgery of the Bones Joints, Mus	Adrenal, Kidney, and Ureter Bladder, Urethra, and Penis Gential Organs Miscellaneous  Surgery of the Nervous System  Surgery of the Nervous System  As Coverings, Cranial Nerves and Its Coverings Fire System  Surgery of the Chest  Surgery of the Bones, Joints, Muscles, Tendons, Etc.	589 589 590 18 590 592 592 593 593
Surgery of the Nervous System  Surgery of the Nervous System  Brain and Its Coverings, Cranial Nerves Spinal Cord and Its Coverings Peripheral Nerves Sympathetic Nerves Sympathetic Nerves Sympathetic Nerves  Surgery of the Chest Chest Wall and Breast Trachea, Lungs, and Pleura Heart and Pericardium Esophagus and Mediastinum Miscellaneous  Abdominal Wall and Peritoneum Gastro-Intestinal Tract Liver, Gall Bladder, Pancreas, and Spleen Miscellaneous  Gynecology  Uterus  Surgery of the Nones, Joints, Muscles, Tendon: Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendon: Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendon: Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendon: Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendon: Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendon: Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendon: Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendon: Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendon: Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendon: Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendon: Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendon: Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendon: Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendon: Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendon: Fractures and Dislocations  Surgery of the Blood and Lymph Sys  Surgery of the Surgery of the Surgery of the Blood and Lymph Sys  Surgery of the Surgery	Surgery of the Nervous System  Solverings, Cranial Nerves and Its Coverings Fractures and Dislocations Surgery of the Chest  Surgery of the Blood and Lymph Systems Surgery of the Chest  Surgery of the Blood and Lymph Systems Blood Vessels	590 592 592 593 593
Surgery of the Nervous System  Brain and Its Coverings, Cranial Nerves Spinal Cord and Its Coverings Peripheral Nerves Sympathetic Nerves Sympathetic Nerves Sympathetic Nerves Surgery of the Chest Chest Wall and Breast Chest Wall and Breast Trachea, Lungs, and Pleura Heart and Pericardium Esophagus and Mediastinum Miscellaneous  Abdominal Wall and Peritoneum Gastro-Intestinal Tract Liver, Gall Bladder, Pancreas, and Spleen Miscellaneous  Gynecology  Uterus  Conditions of the Bones, Joints, Muscles, Tendons Fractures and Dislocations  Surgery of the Bones, Joints, Muscles, Tendons Fractures and Dislocations  Surgery of the Blood and Lymph Sys  Blood Vessels Blood, Transfusion Lymph Glands and Lymphatic Vessels  Tuestment  Surgery of the Abdomen Antiseptic Surgery and Technique, Postope Treatment Antiseptic Surgery, Treatment of Wounds an fections Surgical Instruments and Apparatus  Physicochemical Methods in Surgent Polymore Roentgenology  Roentgenology  Roentgenology  Roentgenology	Conditions of the Bones, Joints, Muscles, Tendons, Etc. Surgery of the Nervous System  S. Coverings, Cranial Nerves and Its Coverings First Serves Surgery of the Bones, Joints, Muscles, Tendons, Etc. Fractures and Dislocations Surgery of the Blood and Lymph Systems Blood Vessels  Surgery of the Blood and Lymph Systems	592 592 593 593
Sympathetic Nerves  Surgery of the Chest  Surgery of the Chest  Chest Wall and Breast Trachea, Lungs, and Pleura Heart and Pericardium Esophagus and Mediastinum Miscellaneous  Surgery of the Abdomen Abdominal Wall and Peritoneum Gastro-Intestinal Tract Liver, Gall Bladder, Pancreas, and Spleen Miscellaneous  Gynecology  Uterus  Surgery of the Blood and Lymph Sys Blood, Transfusion Lymph Glands and Lymphatic Vessels  Surgical Technique Operative Surgery and Technique, Postoper Treatment Antiseptic Surgery, Treatment of Wounds are fections Anasthesia Surgical Instruments and Apparatus  Physicochemical Methods in Surgent Paduum  Roentgenology  Roentgenology  Roentgenology  Roentgenology  Roentgenology	: Nerves 578 Surgery of the Blood and Lymph Systems Surgery of the Chest Blood Vessels	593
Chest Wall and Breast Chest Wall and Breast Trachea, Lungs, and Pleura Heart and Pericardium Esophagus and Mediastinum Miscellaneous  Surgery of the Abdomen Abdominal Wall and Peritoneum Gastro-Intestinal Tract Liver, Gall Bladder, Pancreas, and Spleen Miscellaneous  Gynecology  Uterus  Blood, Transfusion Lymph Glands and Lymphatic Vessels  Surgical Technique Operative Surgery and Technique, Postope Treatment Antiseptic Surgery, Treatment of Wounds an fections Anaesthesia Surgical Instruments and Apparatus  Physicochemical Methods in Surgical Technique  Roentgenology  Roentgenology  Roentgenology  Roentgenology		593
Esophagus and Mediastinum Miscellaneous  Surgery of the Abdomen Surgery of the Abdomen Abdominal Wall and Peritoneum Gastro-Intestinal Tract Liver, Gall Bladder, Pancreas, and Spleen Miscellaneous  Gynecology  Uterus  Surgery and Technique Treatment Antiseptic Surgery, Treatment of Wounds ar fections Anaesthesia Surgical Instruments and Apparatus Physicochemical Methods in Surg	and Breast 578 Lymph Glands and Lymphatic Vessels 178 and Pleura 578	
Miscellaneous  Surgery of the Abdomen  Abdominal Wall and Peritoneum Gastro-Intestinal Tract Liver, Gall Bladder, Pancreas, and Spleen Miscellaneous  Gynecology  Uterus  Operative Surgery and Technique, Postope Treatment Antiseptic Surgery, Treatment of Wounds an fections Anaesthesia Surgical Instruments and Apparatus  Physicochemical Methods in Surgery Roentgenology  Roentgenology  Padum		
Surgery of the Abdomen  Abdominal Wall and Peritoneum Gastro-Intestinal Tract Liver, Gall Bladder, Pancreas, and Spleen Miscellaneous  Gynecology  Uterus  Antiseptic Surgery, Treatment of Wounds an fections Anasthesia Surgical Instruments and Apparatus Physicochemical Methods in Surg	us Some Surgery and Technique, Postoperative	594
Liver, Gall Bladder, Pancreas, and Spleen Miscellaneous  Gynecology  Uterus  Surgical Instruments and Apparatus  Surgical Instruments and Apparatus  Physicochemical Methods in Surg  Roentgenology  Padum	Surgery of the Abdomen  Antiseptic Surgery, Treatment of Wounds and In Wall and Peritoneum  579  fections	594 595
Uterus 583 Roentgenology	Bladder, Pancreas, and Spleen 582 Surgical Instruments and Apparatus 583	595
Oterus 503 Padum	Gynecology Physicochemical Methods in Surgery	
Adnoxal and Periuterine Conditions 584 External Genitalia 585 Miscellaneous 585	d Periuterine Conditions 584 Radium Miscellaneous	595 596 596
Miscellaneous	Miscellaneous	
Obstetrics  Pregnancy and Its Complications Labor and Its Complications Puerperium and Its Complications Newborn Miscellaneous  Clinical Entities—General Physiological Cond General Bacterial, Protozoan, and Parasitic tions Ductless Glands Surgical Pathology and Diagnosis Hospitals, Medical Education and History	Clinical Entities—General Physiological Conditions	596 598 598 598

#### AUTHORS OF ARTICLES ABSTRACTED

Achepheck, B 447 Adalr F L 137 Adams A. W 115 Asses, A. 55 Andros, W. Dell. 5 3 Auston, A. s. Bacon, E. P. Bacon, E. P. 540
Bagdasarov, A. 550
Baker, A. H., 5.7
Basy L. 553
Ballocu, B., 5.1
Bernabeo, E. 530
Bracon, R. 570 Calma, 11 51 Calef C 573 Candolin, V 334 Candol, C K 5 Cannon, D J 330 Caparalo, L 345 Caltell, R. B. 130 Cecal, A. B. 547 Crand, S 507
Character, H 557
Chang, L N 507
Chang, L N 507
Charact, G, 550
Cantinder, X J 550 Dable, M 51 Davies, G F 8 1 Davies, M E 537 Debuch, L. 53
Debuch, L. 53
Doby E. A. 530
Dobyopol, V. B. 54
Donald, C. 5
Dramo, E. M. 530 Dutroquet, R : 6 Dunball, Sar T : Dunanton, J. H. Chunart, E. 527
Estimov, A. 505
Enerry E. S. J. S. Carlos

Lacks Eachon, J. B. ; Fivre, M. 51 Eins, A. 505 Firor W. B. 501 5 3

Istagenski, J.E. 54 Fletcher, E. M. 5.3 Porty F. 9
Praner C H 5 9
Fried, B M., 5 2
Gabrel, W B 5 99
Gibson, T E 545
Gordon-Taylor G 370
Commel H 500 Great II 516 Grib, A 5 5 Haka, J 540 Harara, J 547 Hayra, W I 54 Hayes, W. L. 543 Hamelowates, H. 545 Hanckman, H. 545
Hafer O. 503
Hosser, J., 537
Hosser, K. 535
Howard, M. E. 543
Howard, R. C., 505
Harchmon, R. U., 547
Hyman, H. T. 506
Lacte, J. 3
Lacte, J. 5
Lacte, J. 5
Lacte, J. 5
Lacte, J. 5
Lacte, J. 6
Lacte, J. 7
Lacte, J. 6
Lacte, J. 7
La James, M., 553 Johns, E. P. 5 5 9 Kallen, L. A. s Kecakes, Z 500) Korn, J. A., 908 Kharasch, M. S., 537 Kushroogh, J. C. 545 Kirwin, T. J., 538 Kondoba, A. B. 159 Labey, F. H. 130 La Bara, L. 17
Legalit, R. R. 517
Leschider P. J. 905
Lepper E. H., 5.7
Leschide, R. 907 Level, J 558 Level, J 517 Leeds, F 555 Lang 11 510

Lloyd Davies, D V 520 Lloyd Davies, O V Llows, I B., 54 Lowsky O B 5,38 Inchesto, E 57 Mach, M J 56 Mach, R, 551 Macha, M T 350 Macha, M T 350 Macha, R 542 Harts, CL 564 Marts, J M, 564 Marts, J M, 564 Marts, J M, 564 Marts, J M, 564 Marts J M, 564 Marwell, J P 149 Menegana, G. 554 Micachar, G., 954 Monroe, R. T. 5 5.5 Moore, C. P., 550 Margan, T. N., 557 Musico, D. 540 Neostaether, M. 514 Nicholson, O. N. 508 Normder, E. J.4. North, J. P., 161 oraria, J. P., 201 O'Rinea, C. S. 506 Odortta, D. 554 Ombile per Ophia, W. H. Ophvia, W. H. 134 O'Shaughatany L. 946 Pares, L. 150 Pendana, D. 150 Paulian, D. 180
Fuzzagh, R., 955
Fuzzagh, R., 955
Fuzhara, C. H. 54
Fuzhara O. 530
Fil. H. T. 907
Fuller, L. S. rad, S. B.
Fuller, L. S. rad, S. B.
Fuller, A. M. 186
Fuzzagh, A. M. 186 Politis, A. M. 196 Rammy A. M. 205 Runkes, P. W. 15 Reboul, H. 158 Ricard F.

Racard, E 587

Ragler L G gas Rusdoos, A 533 Regers, G 537 Rogers, W A 535 Roschart, W 57 Sermete, 116 Sena, E 538 Secucion, J T 554 Schict, E 554 Schott, A. ; Schotert, E. von, 164 Schotena, W. 443 Schwartz, A 153 Selber, J., 53 Sever J. W. Sever J W 133 Sharps, W C., 319 Swall, J. 533 Direct, D 156 Spackman, E W 37 Score, C. 5 J 249 Strans, M 348 Taburath Tabaneth, M 57 Tala, G 541 Theodoresca, D 505 Takey II, 500 Tearoff, A S W 540 Trains Rao, G, 540 Ventue, J. H. 545, 540 Ventue, J. H. 545, 540 Versee, C. 527 Versee, C. 527 Rade, N. J. 139 nasc, H I try n medicki, P 550 U offer, J A 528 Weltman, H W Woods, M S 505 Wright, G, 524 Zollmann, R 530

# INTERNATIONAL ABSTRACT OF SURGERY

JUNE, 1935

### ABSTRACTS OF CURRENT LITERATURE

#### SURGERY OF THE HEAD AND NECK

#### HEAD

Theodoresco D, and Hofer, O Cancers of the Cheek (A propos des cancers de la joue) Presse méd, Par, 1934, 42 2040

According to the literature, carcinoma of the cheek is very rare and very malignant, its treatment is difficult, and the results are poor. The authors have studied 40 such carcinomata. As these were found among 700 buccal tumors, their incidence was 5.71 per cent. This practically agrees with the incidence given by Kuttner (5.63 per cent), but is considerably lower than that given by Channing (14.18 per cent). Leucoplakia is believed to be an important pre cancerous lesion. Most of the tumors reviewed had their origin on the buccal mucosa. Among them were a melanosarcoma, a cylindroma, and a bisal-cell epithelioma. They were of high malignancy. Larly treatment is important.

On the basis of the statistics of Berven, Channing, Lund, and others and their own experience the authors believe that surgical treatment is far superior to radiotheripy. They state that the exposure should be wide. Block dissection of the lesion and the regional nodes is advisable. The cosmetic result is best when this is done through an incision made in the midline of the lip and chin and extended horizontally to expose the cervical nodes. Wide excision may necessitate the use of a cervical flap for repair. The lymphatics follow the facial vessels in close proximity to the periosteum of the mandible.

Of the 40 cases reviewed, operation was performed in 37. Lymphadenectomy was done in 30. In several, the mandible or maxilla was included in the resection. The authors favor immediate repair of the defect. Depending upon its extent, they repair it with adjacent tissues or with flaps from the head, neck, or elsewhere. To replace the mucosa they have used Thiersch grafts over a stent mold as suggested by Esser.

Regional anæsthesia is generally employed, sometimes with avertin as a base. In the cases reviewed

the early mortality was 3 deaths. I wo of these deaths were due to pneumonia and I was the result of septicamin. One of the patients who died of pneumonia had erusipelas. The late mortality was 70 per cent (26 deaths) Sixteen (43 2 per cent) of the patients developed a recurrence Lighteen (48 6 per cent) remained free from recurrence during an observation period of from five months to fifteen Lymph node involvement has prognostic importance Ten prtients had no pripable nodes, 10 had soft palpable nodes, and 20 had hard palpable nodes. In 3 of the latter the nodes were adherent In 11 cases restriction of jan movement resulted from the operation and necessitated a secondary plastic procedure for its relief. In 5 of the 9 cases in which the best results were obtained no radiotherapy was given THOMAS W STEVENSON, JR., MD

#### EYE

Ramsay, A. M. Clinical Science and Ophthalmoiogy. Brit. W. J., 1935, 1. 239

The ophthalmologist is generally consulted because of ocular pain or some disturbances of vision. Ocular pain is usually a danger signal and may be of inflammatory or non-inflammatory origin

Pain of inflammatory origin varies according to the site of the lesion. Superficial lesions cause pain of a sharp, cutting type which is aggravated by hid movements, whereas deep lesions cause pain of a throbbing or gnawing type which radiates along the branches of the trigeminus nerve and is most severe late at night or early in the morning. In the diagnosis consideration of the character of the pain in conjunction with other signs is of importance.

Before the development of physiological optics, non inflammatory pain was classed with asthenopia and regarded as incurable. As long as asthenopia was studied by the observational method alone, no progress was made. The optical instruments invented by Helmboltz and the clinical studies published by Donders in 1864 demonstrated the abnormalities.

responsible for it. Dunders was able to accomplish so much because he was an ophthalrockelst as well as a physiologist. Closer cooperation between the laboratory worker ad the chairlian results in Improvement in the appressed to chindral problems.

The retian is peculiarly succeptible: 'rething-retainforcers. Accurate invariance of light and redor sease may reveal the first ladocation of a datuments of vision. The heast amount I light capable of raning a sensition in the light minimum," and the surder perceptible increase is herilizary of one of two lights in the light difference. As because in the light minimum is evidence that the rods and come are defective. An increase in the light minimum is evidence that the rods and come are defective. An increase in the light minimum is evidence that the rods are consistent layers of the retins with the graphon cells for rapply. The rods and come account the capable rapple are required to the propriate of the retins with the graphon cell and I see layers to recruit the respirance of the retinal create.

The high traigmoun is always desordered in dissaces which interfere with the circulation in the choriceapillaris, percenting normal representation of the whent purple: A lacroscale in the high mislimous occurs with age and with the camulature effect of todie substances in the thook. In primary featocoma it is one of the earther signs. In the early stages is it is much as the interest of dimense of those and

the pressure of colored rings around a light. Which to Mindows a die to credibit primerious which may be berrottery and conpensative which may be berrottery and conpensative the cores in adults without the appearance of piguentary changes on the retinal it may be due it shared by that ever it year and realization. It can be produced expenses tally with a deet defectent ittainia A Retuitus preparation as a propertial disease resulting eventually in completa too of vision. Ray he has been able to presone retief by drading the therace; mynathetic frunk I the level it has even the thoract proposed if yet operation.

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for recovery

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THE LED S PLATE M.D.

O'Brien, C. E., nd Let folder P J t Luffstred Facehthalman, An J Ophia 435 13 3

Of eighty two consecutive cases of unilateral exophthalmon, 3 (35 per cent) were due 1 orbital inflammation and 31 (32 per cent) 1 non-inflammatory charges

(berres in the orbit occurred a complic to a supportant emercias in thirtren rases, followed a prescripting liquity in one case and a procedured with arctinomy could in one case. O Builds was accomplication of penciphthinum in eleven cases and stase-orbital with an expose state thrombon. In two cases, Octomy shill accurred 1 to case of

personalitis fis one case A rule infammatory conductor were recognized with case a the propious and slam ere sail to to their owner and progressed rapidly. Propted is creased rapidly from day t day movements of the globe were hauted, and pain and tenderress err present. The lids were red ad offen the bulbar conjunctive w congested ad chemotic, and sera similar fuctuating mays we seem or left in the orbit I t raws discharging sless appeared in Signs of congestion in th the lid or constacts f ados ere are In some cases the t meetaters w leasted of there was an increase in the fractiext count ( reful examination of the name serve sty mouses, the teeth and other regime of the heaf together with roentgenographic turies ascally re exical the source of the reference. I or first ner found to be 1 a d the source of the infection.

and cashing a secondary stem step of many stem step or sected to was person. The section is trend; four sen of con it ted the smoot interpret to we do not see a completion of sacron and private a ted to the control of the secondary as the orbit four occurred to the private as the orbit four occurred to the secondary as the orbit four occurred to the secondary of the secondary o

parts, but occurred also as a metastatic growth. It was found only in adults, grew quite slowly, and involved the regional lymph nodes. It infiltrated bone in some of the cases. Neoplastic diseases of the hæmatopoietic tissues were responsible for several orbital tumors, viz, undifferentiated hæmatopoietic tumors composed of cells of an early embryonal type, malignant lymphomata, tumors associated with myelogenous leukæmia, and tumors occurring as a manifestation of acute leukæmia. Blood studies were a means to diagnosis in some of the cases of this type but not in all

Benign neoplasms were found in ten cases. The most frequent benign neoplasm was the meningioma. This tumor grew very slowly and, except in the late stages, gave rise to few symptoms. In the roentgenograms made in cases of meningioma there were evidences of hyperostoses in the anterior or middle cranial fossa or in the orbit. Among other benign tumors encountered were a glioma of the optic nerve, a granuloma, a hemangioma, a neurofibroma, an

adamantinoma, and a chondromyxoma

Trauma followed by an orbital hæmatoma, rupture of the carotid artery into the cavernous sinus with pulsating exophthalmos, or orbital emphysema occurred in eight cases. In orbital hæmorrhage the proptosis developed rapidly and subsided slowly without other symptoms. In arteriovenous aneurism the typical signs of pulsating exophthalmos were present. In emphysema the onset was sudden and crepitation was elicited in the lids.

Mucocele of the frontal sinus was present in three cases. The proptosis developed slowly and the globe

was displaced laterally and downward

Exophthalmic goiter occurred twice The proptosis was unilateral, but the other common ocular signs were present in both eyes In one case there was a high degree of unilateral axial myopia with pseudoproptosis

In 3 cases the cause was undetermined

Non-inflammatory lesions of the orbit accompamed by proptosis were sometimes difficult to diagnose Frequently in cases of such lesions tissue examination was necessary to determine the cause The history was of importance, especially in cases of trauma or metastatic tumor Signs of inflammation were absent although pain was sometimes present and occasionally the lids were ædematous or even hæmorrhagic. Frequently a visible or palpable mass was detected in the orbit and the globe was displaced laterally or vertically as well as forward Ocular rotations were usually limited in one or more directions Roentgenograms were of assistance in many cases While they sometimes failed to show evidence of a tumor mass, they frequently disclosed signs of pressure, bone infiltration, bone erosion, or hyperostoses when they did not outline the neo plasm A general physical examination, including blood and other laboratory studies, should always be made, since in a few of the cases reviewed it was the sole means of diagnosis

LESLIE L McCoy, M D

Chang, L W Dislocation of the Lens Chinese M J, 1934, 48 916

Dislocation of the lens is rare. It may be either congenital or acquired. When congenital it may also be hereditary, it is always bilateral, and the lenses are never displaced downward. Adams reported a case of downward displacement and Page a case of unilateral ectopia of the lens. In a period of four years the author observed four cases of congenital and three cases of acquired dislocation. The results of treatment in these cases were unusually good.

Virgil Wescott, M. D.

#### Pi, H T Subcapsular Cataract in Osteomalacia Chinese M J, 1934, 48 948

Cataract is often associated with postoperative tetany and with the so called idiopathic tetany with changes in the hair and finger nails, caries of the teeth, and diminished bone growth. Tetany may occur in infants with or without rickets and in adults with and without osteomalacia, but the relationship between cataract, tetany, and osteomalacia has not always been recognized. The author reports three cases of subcapsular cataract associated with osteomalacia.

Virgil Wescott, M. D.

# Pi, H T Cataract Among the Chinese Chinese M J, 1934, 48 928

The author states that operations for cataract are infrequent in China because the Chinese seldom live to the cataract age, it being rare for them to attain the age of seventy years, they are cautioned in early life that operations on the eyes are dangerous, and at the age of sixty years they feel so near death that they make no effort to improve their physical condition. Senile cataract is seen from five to ten years earlier in China than in Japan or Germany Cataract is probably more common in women than in men, but for social reasons fewer women appear at the clinics.

VIRGIL WESCOTT, M. D.

# Dunnington, J. H., and Macnie, J. P. Detachment of the Retina Operative Results in 150 Cases. Arch. Ophth., 1935, 13 191

The operative results in 150 cases of retinal detachment are analyzed. There were 197 operations on 155 eyes. Sixty-four per cent of the patients were males. The ages ranged from five to seventy-five years and averaged thirty-nine and eight-tenths years. There was a positive history of trauma in 30 per cent of the cases and a suggestive history of trauma in 113 per cent. Myopia was present in two-thirds of the cases. In 36 6 per cent it was 6 diopters or more

Severance of the rectus muscles with subsequent re attachment rarely produced any significant muscular imbalance. No permanent effect on the intraocular tension was noted. Marked hypotony was found to be a grave prognostic sign. A postoperative change in the lens was rare. Frequently some impairment of the field remained after successful operative procedures. A cure was obtained in about 50

per cont of the cases with detachment of about half of the reiths both only about 5 per cent of those with detachment of three-quarters of the reiths. The inferior part of the first say other part. Detachments of the reiths are found detached about without democrated any other part. Detachments without democrated any other part. Detachments without democrated by care in 38 per cent of the frequently as those with one or more lokes. The treatment was followed by care in 38 per cent of fairs in 54.9 per cent. Just as successful results were obtained with the chemical or territation of Galist and called with the chemical or territation of Galist and Walker. The authors believe that on medical or Walker. The authors believe that one requires extensive treatment of the affected area.

WILLIAM A MAPS, ] MD

#### RAD

Howard, R. C. The Window Operation for Herma terms Auris and Perichandritis with Effusion. Laryagescope, 937 45 8

Howard stee that in cases of hermatoms, finds formations, and chronic meases here each the perichondrium and the cartilage of the ear astifactory results may be obtained by forming a window for prompt systemation and first draining by removing a piece of tissue consisting of perichondrium and a full thickness of skin by means of a punch or other still able cutting laternment. I same C Reservers. M D

Fine, A. Oculomotor here Spean is Gesdenigo's Syndrome. And Ottleryegol 935, 42.

In ou Gradesigo described a syndrous consist in of across totils mode associated with path to beed and paralysis of the sixth nerve on the same side. The offits may be an excretation of chronic oditis without signs of maxicaldith, or the syndrous my occur diargo convisioners from a masted operation. The syndrome is due to pressure on the temperature of the properties of the process of the temperature of the process of the process of the temperature on the guarantee properties of the sixth treasure on the guarantee program and may be distributed to any of the repose applied by the fifth

erve Dijopja and paritytic internal strahiemus develop as the result of sith necess parityies. The second, third, foorth, and seventh nerves are hordered only when there is a complicating also thromboats, brain absent, or diffuse supportative meningtils, but tocasionally. Materiahases of one of these herves may develop without childral evidence of an international complication. Therefore the eye of the patient with a satisfaction to complication with the satisfaction of the patient with a satisfaction to empfail their vestion miles there is no the vell-defined evidence of intradural liavolvement. Fapilize-terms and invariant of the facile nerve have each occurred to a consecution of the said nerve have each occurred to take

which cleared p spontaneously. The trochlear nerve, which supplies the superior oblique muscle and gives rise to vertical diplophs when affected, is the least frequently involved of all the conformatial nerves. The third nerve also is seldent involved by pressure phenomena, the retion

being its abort and comparatively sichlared context to besse of the skull. This server sales from the medial surface of the cerebral peduack, pierce the medial surface of the cerebral peduack, pierce the dars at the middle cantal loss, and immediately enters the lateral will of the ceveroos strow, where pedual-the cerebral control of the cerebral cerebral cerebral cerebral cerebral description of the cerebral cerebral cerebral cerebral cerebral description of the cerebral cer

If in the primary position of the eye, the purple cys turns tower thereoes, pastern of the historial retuin much is almost present. In the present of searn the purplet cys more more might give the other cys is adduction of the speake internal return. A study of the diploped fields shown in the place is most marked when the pullent looks in the direction of the purplets determal rectue, look in the present abow when his looks in the direction of point has field of action of this function. This indicates that the diplopia is due to speam of the homolateral liverreal retries number

Is the differential diagnosis it is recovery to take into consideration the possibility of bilisteral irredument of the sixth nerve, in which condition disposses and internal strabitums are less marked in the primary position than when the systs look eithor to the right or the left Egways 5 Parts, MD

Keen, J. A. Glinical Observations on Chronic Desiness to Children. J Laryand & Ool., 334, 40, 783

Kem reviews thirty-two cases of chronic decisses in children is which the child method of treatment was the electrophosoid method of Zand Burgott. The dealers was due to thorsel suppositive ofth media, chronic middle our catarrh, or decisional in the cases of the fart type the scan ear few from duckarps before treatment was consocial method catalant was used to control. After severy several to condition was worse in five of the six the protes transport of all optimizes the condition was worse in five of the six the standard of the control of the six the severy several services and the control of the six the several cases but improved it all of the treated cases

In the caser of the second type the desinces had persisted after the usual methods of treatment. These was sever any dacharge, and the dram membranes were lained. Improvement occurred in all of those treated by the electrophonoid method but in only two of the four controls.

In the cases in which the desiress was due to otoscherous the drum seembrane was normal. The desiress may have been of the inner ear or congradual type. In this series there was no studies improvement in the treated cases.

The patients were under observation for from seven t tsu years. Once year the basing was tested by the conversational and whipperd roles and graphs were made Jone F Dezes, M D

NOSE AND SINUSES Tilley, H

Chronic Pyogenic Inflammation of the Antrum and Other Accessory Sinuses

Following a brief résumé of the normal anatomical relationships of the sinuses and a description of the normal nasal mucosa, Tilley presents a detailed discussion of the problem of chronic sinus infection in the adult supplemented by numerous photomicrographs and illustrative case histories He discusses particularly the defensive chary action of the mucosa To denote transmission of infection by way of the lymph channels and blood stream he uses the term "vascular convection"

Histopathologically, five types of infection of the nasal accessory sinuses are recognized the ædematous, the infiltrative, the fibrotic, the cystic, and a new type in which the infection involves the penosteum and passes by way of the vascular channels to the bony sinus capsule These types are not easily distinguished clinically as one merges into the other The infiltrative type is the most common and the infective osterits type the most serious An example of the latter is the diffuse spreading osteomy clitis of the frontal bone

In discussing the operative treatment of chronic maxillary sinusitis Tilley advocates the Caldwell Luc operation for all cases except those of the simple edematous type He attributes recurrence after a well-executed sinus operation to a residual infection in the bony tissues surrounding the sinus He states that until this infection is eliminated recurrences and focal 53 mptoms will persist John F Delph, M D

Veau, V The Skeleton of Harelip (Le squellette du bec-de hevre) Ann d'anal path 1934, II 873

The bony defects present in complete unilateral and bilateral harelip are described and shown by illustrations Veau has studied thirty one skulls with such lesions and serial sections of the skulls of Six fetuses from five to eight months of age

Characteristic of complete bilateral harelip is enormous projection of the interma ullary bone due partly to elongation of the vomer but chiefly to deformity of the intermaxillary bone Recession of the superior maxilla may make the projection more apparent There are four incisors in the median tubercle. The lateral incisors are lost early because they are poorly implanted and their blood supply is imperfect. While the incisors are in a vertical plane although they pro Ject forward, they are useless for mastication because they are separated from the inferior incisors by more than I cm. The vomer and interma ullary bones may project straight foward, but the aus is usually Curved because of the pressure of the bridge of soft Parts at the level of the mose The author supple ments his description with drawings of eight frontal sections of an eight month fetus

The lesion is essentially the same in unilateral as in bilateral harelip, but the skeletal changes are very

different because in unilateral harelip the vomer and median tubercle are acted upon by the natural forces of the normal side and, as a result, the median aus is considerably distorted The author presents dranings of two twins of 165 mm which demonstrate the distortion He compares a set of senal sections taken in the frontal plane and a set taken in the honzontal plane with a few normal sections In the normal subject the intermaxilla is situated in the frontal plane In the deformed it is in the sagittal plane and is progressively dislocated from the inferior margin of the septum away from the side of the cleft calls attention to the deep groove where the nasal mucosa normally turns from the septum onto the palate because, in the repair of the floor of the nose which is generally necessary, the mucosa in this region should be freed

Part of the vault in cleft palate is covered by mucosa which normally should form part of the floor of the nostral on the cleft side. The nostral on the cleft side is generally obstructed by the hypertrophic inferior turbinate The author presents horizontal sections showing the great deviation of the septum toward the cleft side, and several other sections showing variations in the arrangement of the suture lines and teeth in unilateral cleft palate. In conclusion he states that complete harehp sometimes occurs without cleft palate and occasionally with only minor bone changes Thomas W STEVENSON, Jr., M D

Kecsles, Z The Advantages of High Tracheotomy (Ueber die Vorteile des oberen Luftroehrenschnittes)

According to the Lénart Nose and Throat Clinic at Budapest, high tracheotomy should be chosen for the adult and low tracheotomy for the child This viewpoint is based on 226 tracheotomies which were done in the last few years The operation is performed under local anaesthesia, never under narcosis An oval window of the diameter of the cannula to be introduced is cut in the wall of the trachea. The high tracheotomy, which is more rapid, is recommended also for emergency cases The anatomical conditions are more favorable for the high operation At the level of the first to third tracheal rings the trachea is superficial, while at the site at which the low operation is performed it lies from 5 to 6 cm below the skin and in front of it are large veins which in dyspacea may be dilated to the size of the little Often, the arteria anonyma crosses the trachea very high up The arteria thyroidea ima is present in 10 per cent of the cases In the cases of present in to per cent of the cases are the cases of children the possibility of an enlarged thymus must also be considered

In the cases of short-necked persons the long tracheotomy is often impossible as the fourth and fifth tracheal rings are behind the sternum plications are more frequent following the low tracheotomy Secondary hamorrhage occurs in 81 per cent of the cases in which this operation is done (Eske), but in only 19 per cent of those in which the

high operatio is performed. Wound infection is also more frequent after the low trachestomy. I the high operation the short cannula fits the acts of the truches better its initial changing being therefore easy and operative accidents are more easily avoided. (b. Initial.). Jours W. Bar. M. M.

Canalo, C. K., and Liner H. Two Cases of Child hood Mysudanza Reported for the Europea of Emphasizing the importance of Bone-Age Studies. Enderstadopy 933 9

In reporting two case of presults hypothyroidism the nuthen present a series of reentgeongram of the wrist of one of the patients which aboved extreme occurs retarriation before treatment and method oscens development during two years of thyroid therapy. They may the use of bene go removed ray using in cases of suspected hypothyroidism. There cit this work! Engelsich and Sabelton and present a dassification of condutions associated the premature and retarded ossiciations.

PAUL STARR, M D

Kallen, L. A. Vicarious Vocal Mechanisms. The Ametomy Physiology and Development of Speech in Laryngectanised Persons, Ank Ondergage 934, 50 450

Kallen states that improvement of the technique of artification of the larger has resulted in increasing interest in methods of restoring voice t persons subjected to that operation

The disadvantages of the providence formerly used were unitative of the tissues, shell and operating was not further on the tissues, shell and operating probabilities coal, and occasional future of the posturates twent. The uthor claims that there is hardly a person subjected total laryangerizony who within short time, could not be taught to develop furfy loud voice amenable to a certain degree of mobilition and superior to the good produced by mechanical device.

The purpose f vocal therapeutic measures after insupercomp is to develop a ventorious reservoir or as which may be subjected to compression in such way that some anatomical structures capable of functioning as a vicanous glottle may be activated by the anatomical structures offening possibilities for the development of a vicanous an chamber way in the classification of the development of a vicanous an chamber way in the location from the storage of the development of properties.

(crinopharymens eneeds)
It is believed that under normal conditions the patric are bubble facilitates the entry of lood into the entered, regulates spatial capacity, and regulates patrial capacity, and regulates patrial capacity, and regulates present in the lower portion of the atomach contracts. By some chains the sub-like grid air is advocated. The sub-order direction approach of the contract of the contract

tongue and the tense velum palatini, the base of the tongue, the posterior wall of the pheryon, the poperior pillars of the faces, the palatine rehe, the inferior constrictor of the pheryon, the opigiotis, the two hierard pheryogend bands, the external folds of crophagus : the its associated useues (cricopia, ryagene muscle) and the mouth of the crophagus.

Two stages are differentiated in the production of orsophageal speach escitance (opening up) of the emophagus before phonation occurs and encohares contraction during phonation. Air or rush lat the ersophagus only after its mouth is open. Since, under normal conditions, the resophagus renains closed during inspiration, the laryngectomized per son must learn the method of effective aspiration of air by conscious amaibilities. Whenever possible, the surnece should preserve removes members and a favorably placed excatricial band, muscle, or muscular remain t as they may serve as basis for the development of a psyndoglotte. It is unexceed that the transplantation of tw folds of merces menbrane or remoralar strips in the mesopheryne or hypopharynx may provide a structure which later might develop into a pseudoglottla dependent upon their canadity to vibrat. It is important to stare the fibrus of the cricopharyngens muscle and to protect the sternohyold and thyrobyold muscles from

surgical barra The a thor classifies pseudo-volces into four groups (s) the pseudo- hispered volce, (s) the pharysgeal voice, (3) the crophageal voice, and (4) the gastric voice. Normally: hispering occurs when the expiratory breath current flows through the postersor portion of rims, making an opening of very ing size which is shaped like transfe. The lary aprotomiaed subject who "perido-whitpers" cannot form independent vowels. He can merriy indicate them H does this by assuming the real posture involved Actually he produces the comonants. It is best for the patient subjected to lary agectomy not to attempt the pseudo-whisper as it may become behitual and render worst methods difficult. The no-called pharynges) voice is that of the patient whose vicarious glottle lies in the mesophary ax or hypopharyna The prophered voice differs is machanism and accountic quality from the pharyneral wore and is the aim and end of vucal therapy after laryagentomy as it permuts untisfactory volume modulation, and framey The gastric voice is often used by ventrilloquata. This is the so-called "bellycla g type of voice. The sound is made by eracts tion from the stomach combined with articulation and is sufficient to produce speech

The subart thereases his respiratory function and variations in speech, the ride of the displayage in viriationa respirations, speech suckouf me his larguage tomaxed, variations in vocal residuations, and there peate measures for the development of the viriation of viriation of the viriation of viriatio

gram The results of this program are dependent upon the intelligence, adaptahility, skill, other qualities of character, and general condition of the patient. The program includes reconditioning of phonic respiration, the production of sounds and syllables, aids to the production of eructus, the practicing of articulations and their combinations, reading and modulation exercises, and movement of the head and neck to aid in the development of the pseudoglottis.

The prognosis in vocal therapy is dependent upon the psyche of the patient. As a rule it is favorable. The wound produced by total extirpation of the larynx heals completely within about six weeks. Phonetic therapy should be instituted immediately after healing. The mechanical device does not replace an inherent hiological function. It does not become an integral part of the patient's psyche. It remains, at hest, a useful machine never identified with his personality. The aim of all vocal gymnastic therapy after laryngectomy is to aid the patient to live as normal a life as possible.

ALTON OCHSNER, M D

Tucker, G Cancer of the Larynx Observations in 200 Consecutive Cases Arch Ololaryngol, 1935, 21 I

Tucker reviews 200 consecutive cases of cancer of the lary nx which came to the bronchoscopic chines of the University of Pennsylvania and were treated hy several surgeons or roentgenologists

Only 2 per cent of the patients were negroes Forty-one per cent had used the voice excessively,

and 12 per cent had used tohacco excessively All of this group had hoarseness and local discomfort Twenty-two per cent had dyspnæa, and 58 per cent dysphagia Local or referred pain was present only when the disease was advanced.

X-ray examination yielded evidence of a lesion in the larynx in practically every case. Correlation of the findings of X-ray examination, mirror examination, and direct examination permits an accurate determination of the location and extent of the lesion. Biopsy was done in all of the cases reviewed. In none were there any untoward effects or indications of metastatic spread resulting from this procedure.

Ninety-five per cent of the lesions were squamous cancers. Seventy-two per cent were prohably of intrinsic origin, a type of lesion which is amenable to surgical treatment if it is diagnosed early.

In 58 of the cases laryngofissure was performed In 14 per cent of these the lesion recurred in two years

Of the 31 cases in which total laryngectomy was done, recurrence developed in 37 per cent.

Partial laryngectomy with laryngostomy and maintenance of the opening for one week for the intralaryngeal application of radium was performed in 17 cases

In 54 cases X-ray and radium treatment were given Because of the difference in the methods used, no estimate of the results of the irradiation is possible. However, 3 patients who were treated only by irradiation are still alive after three years

HARRY C SALTZSTEIN, M D

#### SURGERY OF THE NERVOUS SYSTEM

#### BRAIN AND ITS COVERINGS: CRANIAL NERVES

Cairns, IL, and Donald, C. The Distroyle and Treatment of Abeces of the Brain. J Larrent. 6 Otal, 935 50 73

Following a discussion of the various methods of treating abscess of the brain, the a thora describe their own procedure in thirty cases. In t suty three of the latter operation was performed. Ten of the

thirty patients recovered

The authors contend that complet removal is the only attisfactory treatment for thick walled chronic abores, and express doubt as to whether an aboress should be operated upon in the acute stage. They emphasize that not more than cam of cerebrospinal find abould be removed in diagnostic spinal passeture. In their method of exploration for an abscess the scalp is infiltrated ith a per cent novocain and a bute bole 5 cm in diameter is made in the skull at the site of the suspected abscess The dura is then opened and the brain explored with

graduated brain sectle. A distinct resistance indecates that the expraise of the aboves has been encountered It is important for the people t enter the abscess cavity at right angies and at its upper most part. If necessary nother borr hole should be made to permit the needle to be introduced directly rather than obbo ely into the becen. The escape of few bubbles of gas indicates that the top of the cavity has been entered

The artist open and closed methods for drainage are discussed. The after-treatment indicated is the same, regardless of the method of draining the abseem. The authors emphasize that dressings should be done infraquently unless a complication develops In their cases the first dressing is usually done t the end of ten days. The patient should remain in bed for several weeks after the operation

The most common complications in the athors ten cases with recovery were a rise in the tempera ture, ordems, meningitis, incomplete drainage, recur rence, and collepsy. Fits occurred during the first few weeks after operation in four I the cases of recovery but in only one did they continue after the

patient's discharge from the hospital

The authors review the common errors made in the diagnosis and treatment of becess of the busin They believe that the end-results would be improved if the history were carefully considered and neurological examination and an examination of the visual fields wer made in cases of severe beadache after ear trouble or mastered operation. They state that when intracramal complications are suspected neurological investigation should take precedence over mentaldectomy ROBERT ZOLLINGER, M D

Schlett, A.; Supramillar Craniopharyngioms (Suprescieres creaso-pheryaguess) Med Rev 1934. g gog.

As a rule tumors of the anterior lobe of the hypophysis produce the chiasma syndrome. This is essentially a temporal hemianopsia ccompanied by destruction of the sells turcies which is visible in the roentgenogram. The chiasma syndrome amy be produced he by tumous of other kinds, especially so-called craniopharyngiomats. The latter lead, not to destruction of the sella turcke, but merely to atrophy involving especially the clindid processes The thor reports such a tumor It belonged to the

chalcal group of supresellar accolumns

The autonor lobe of the hypothysis arises from an out pocketing of the embryonic oral cavity and is therefore of ectodermal origin. At the end of this 9 t-pocketing there appears closed each live la the anlage of the anterior lobe of the hypophysis The pedicio f the vesicle is the cranlopharyages! Canal Normally this disappears later Behind this salage of the anterior lobe there develops an outpocketing of the mid brain which becomes the posts ther lobe. After the cranionharyogist canel has regressed the hypophysic remains: trached only to the brain. The manupharyngral cases persists in

per cent of dults. It may persist in part or is shole It may come down from above and termitute in the body of the sphenoid or the posterior part of the masal septom. It may contain hypo-Physical tienne II a tumor anxing in the tramo-Pharyages! canal grows upward and emerges at the Mile turdes, it becomes supreseller tumor then cally and produces the chiasma syndrosse roentren picture often shows calcium deposits

In the anthor's case, that of girl cleves years of age, there were disturbances of the rights and handaches, and the roentgenogram showed shadow the star of a plana shows the sella turcica. The shadow was due t small calcium granules. The presence of tacrassed latracramal pressure was evidenced by Cattering of the digitate unpressions. The tensor was operated upon by Obvectors The chiests was exposed from the right side. By sacrificing the right optic nerve, the function of which had been almost destroyed, it was possible to remove most of the to mor and relieve the pressure on the left optic serve, which still functioned fairly well. After recovery concentric diminution of the vacual field

(BURCHMAKOT) JOHN W BAPOR 4, M.D. found Pfabler G E., and Spackmen, E. W.: Further Observations on the Rountgen Treatment of Fi-

tuftery Tumors. An J Resigned \$35.13 14 The relative value of surgery and irradiation is the treatment of pitultary comors has not been de

termined definitely and varies in different cases Of importance in the selection of the treatment is cooperation between the neurologist, surgeon, and radiologist When operation offers a reasonably fair chance of success, roentgen therapy is to be regarded as the second choice. When the tumor mass cannot be removed completely, hope of preventing regrowth must depend on irradiation. When the indications for operation are questionable, the patient's general condition is not favorable, or the patient refuses surgery, roentgen irradiation is of the greatest value. Initial irradiation therapy given by a competent radiologist is less hazardous than indifferent surgery If unsuccessful, it does not interfere with operation unless it is prolonged beyond reason In far-advanced cases in which surgery cannot be considered, roentgen therapy usually offers the only hope of palliation

Twenty-one cases of pituitary tumor treated by irradiation alone or in conjunction with surgery are presented. The neoplasms included pituitary adenomata, a suprasellar tumor, a cystic pituitary tumor, malignant disease with extensive involvement into and about the pituitary region, and tumors the exact nature of which could not be determined. The clinical and roentgen findings are described at length and the results obtained in each case are discussed The results were best in the cases of solid pituitary Improvement of the visual disturbances was a feature in all of the favorable cases, and relief of headaches was obtained in the majority. The article is concluded with the following statements

I Roentgen irradiation is to be recommended as

routine treatment for pituitary tumors

2 Consultation of the radiologist with the sur-

geon and neurologist is essential in all cases

3 We believe that we do no harm and do not delay a favorable outcome by giving 200 per cent of the erythema dose, 1,600 r, through the usual three areas, but that if no response is noted after this much treatment, operation should be performed as in all of our cases amenable to roentgen treatment we obtain considerable expansion of the fields of vision at this stage

4 This treatment can easily be given within two months, and in no way interferes with surgical

procedure

5 If the fields of vision and the clinical symptoms show a satisfactory response, we believe the case

may be treated without recourse to surgery

6 We recommend examination of the fields of vision monthly during the active stage of treatment and at least once every three months when the visual fields appear to show no further changes

7 We have stopped treatment as the fields ap-

proached the normal limits

- 8 We have given as high as from 8 to 10 erythema doses to each skin portal, and by carefully limiting the area of the field, have avoided unfavorable results
- 9 If the fields of vision begin to show contraction or the clinical symptoms increase in spite of roentgen treatment, the patient should be operated upon

10 The total dosage should be carefully watched

11 Postoperative roentgen therapy is strongly recommended for every case in which there is any doubt regarding complete removal of the tumor

ADOLPH HARTUNG, M D

Frazier, C H The Surgical Management of Chronic Subdural Hæmatoma 1935, 101 671

A syndrome which is pathognomonic of subdural hæmatoma consists of headache, somnolence, yellow spinal fluid, and a history of injury to the head. The author reports six cases He found headache to be the most common and somnolence the next most common symptom All other neurological symptoms were inconstant. Inequality of the pupils was found in only three cases and well-defined papillædema in only one case. The disks were blurred in two cases and normal in three Focal symptoms were present in only three cases. In one case the pyramidal tract signs were homolateral Homolateral pyramidal tract signs may be due to (1) pressure of the crus on the incisura tentomi, (2) pressure of a contralateral dilated ventricle, or (3) pressure of the contralateral hemisphere against the cranial wall The spinal fluid was examined in only four of the reported cases In two it was yellow and in two it was colorless. The spinal fluid pressure was increased in two and normal in two. The protein content of the fluid was increased in three and normal in one

Quite often (in 50 per cent of the cases reported by the author) ventriculography or encephalography is

necessary for diagnosis or localization

The hæmatomata were bilateral in three of the author's cases and unilateral in three Bilateral hæmatomata occur most frequently following a blow on the back of the head Subdural hæmatomata are usually found in the frontal and parietal regions, but occasionally they extend from the frontal to the occipital pole. The mechanism whereby an injury to the back of the head causes the rupture of a vulnerable vein has been explained by Trotter brain is not protected against anteroposterior movements as it is by the falx against transverse dis-The cerebral veins passing from the placement brain to the tributaries of the longitudinal sinus are short trunks passing directly from the brain to the dura at right angles. The cranial end of the vein being firmly fixed by the dura and the cerebral end attached to the movable hemisphere, rupture can be readily produced by a sudden jarning movement which causes an anteroposterior displacement

Within a short time (few days according to Spiller), the hæmatoma becomes enveloped in a characteristic greenish membrane. In removing the hæmatoma by the suction method it is important to leave the membrane intact At first, the clot may be of a gelatinous consistency Later, it undergoes liquefaction The fluid is dark blue, coffee colored, or greenish yellow As the clot has usually become liquefied by the time operation is undertaken, Fleming' dual perforation, suction-irrigation operation is the procedure of choice. In this operation two per forations are made from 6 to 8 cm. spart, first on ne side of the midline and then on the other, one in the postfrontal region and the other in the parietal region. They are so placed that they may be utilized in the formation of an esteoplastic flap if necessary Irrigating fluid is introduced through the frontal perforation and removed with the accumulated blood by section through the periotal perforation This process is continued until the hemetoms has been evacuated. Became of the high incidence of bilateral hamatomata, bilateral exploration is rec ommunded. D vid John Laterato, M D

#### Dolgopol, V B., and Neustredter M Mentrato-Encephalitis Caused by Cysticercus Cellulous. Arch. Harrel & Payelinet #15 13 3

Cysticerci, the larves of several intertinal tape worms, are frequently encountered in the muscles of various domestic and wild animals. Cysticerous cellulose the larve of tenis sollum, is the common organism affecting the eve and ther organs of man. but several cases of infection of the eye by the cysticercus of the boyles tapenorm are known The cystlecreus found in the brain is poarently always the cysticmous cellulose

Cyclorcosts of the brain is the most important form of infestation became of the gravity of its prognate. The disgnor's is difficult because of the absence of characteristic signs and because I the variability in the site of the lesion and its frequently disservinated character. The disgrands is most often

made at autoray

The authors report a case of cyaricercosis of the brafts which came to operation and topsy illness began one year before the patient a dmission to the hospital with constant headache radiating from the frontal to the occipital region. Five months later vision in the left eye became himred and the patient completed of seeing red and blue lights. A few weeks later vomiting and convulsive sciattres of the left arm and leg occurred With subsidence of the symptoms, vision in the right eye became blurred while vision in the left eye began

t improve. Lumber pencture at the New York Eye ed Ear Infirmary revealed pressure of 440 mm of water, a meningitic collodidal gold curve, and oo white cells per cubic millimeter 3 per cent of which were costrophiles. No parasites or ova were found to the faces. The patient was transferred to the Central Neurological Hospital The facings of the neurological examination are reported in detail Despit negative Wassermann and Kahn reactions of the blood and negative Il assermant reaction of the spinal fluid the symptoms were ttributed to retrobulbar gamma Because of cosmophila in the blood (1 per cent), detailed cytological examina-tion of the spinal finid was made. The findings of this examination were cells per cubic millimeter cosinophiles, 26 per cent neutrophiles, 24 per cent and lymphocytes, 50 per cent. These observations led to the surpicion of persuitic infection of the meninges or brain. Examination of the cerebenspinal fluid for booklets and of the faces for on was negative The diagnosis of retrobulbar gumma 1th gummatous meniagitis was therefore maintained and antisyphilitic treatment was given.

Four months after the patient a admission to the hospital no cosinophiles were found in the cerebrospinel fluid or the blood. One month later lack sorden attacks developed. These attacks were limfted to the right side and were preceded by paresthesis of the right extremities. The neurological condition remelled about the same wat I t later when the visual fields were constricted and central acotoms was found on both sides. A short time later the patient had a general cloude convulsion with loss of consciousness. Aich lested for about three minutes Following this attack vision failed rapidl until it was limited to the counting of fingers. There were complete primary optic trophy on the right and marked papellordems on the left, Testing of the pupillary reflexes was not done as mydriatic had been administered. The ocular moramenta ere intact There as no nystagrams The corpeal reflexes were present and the pharyages! reflex as absent. Other neurological signs ere only alightly sligged Because of the threatened blind nese right subtemporal decompression s as decided upon A tentative pre-operative diagnosis of sarcometons of the base of the brain was made

On December 8, and an opening r in wide was made in the right temporal region. The dura and brain bulged through it. A small tumor mass was found on the undersurface of the dura and removed

The englowical dlagnosis was meningoons

On the day after the operation there was paralysis of the left side of the face and body and Bablinki reflex was present on the left. The paralysis of the leg subsided the following day but thet of the arm and fare remained unchanged. Four days later there was complete amounts with primary cycle trophy on the right and complete secondary atrophy on the left. To weeks later a small purelent discharge appeared in the sound and was followed by challs and a rise in the temperature to on degrees F. The patient died one year and sine months after the beginning of the symptoms.

The andings I sutopsy are reported in detail A heavy plastic exprists was present in the lo er sur face of the brain over the peduacies, the poes, and the medulls and apparently extended to the miral cord. A tassel of veslcies was seen emerging from the right sylvian facers and other groups of more sharply defined resides are observed on either side of the posts T o tassel like groups of vesicles ere present on either side of the poes and met over the quadragemenal bodies. The fourth weatricle and the aquedoct of Sylvins were filled a this dry cheery muterial. The diagnosis was infestation with cyaticerous recemown

The pathological changes ere meningo-encepha hths and choroicitia caused by the cysticerous race

mosus, ependymitis granulosa, existeercus endartentis at the base of the brain and in the branches of the right middle cerebral artery distal to the lenticulostriate artery, and cortical infarction

The loss of vision was caused clinically by primary atrophy of the right optic nerve and secondary atrophy of the left optic nerve, the result of mild hydrocephalus produced by the exudate in the aqueduct of Sylvius and in the fourth ventricle Microscopically, both nerves showed chronic inflammatory and degenerative changes due apparently to the proximity of the cysticercus which extended from the right sylvian fissure into the anterior fossa Enward S Platt, M D

THUMBO I BALL IL

#### SPINAL CORD AND ITS COVERINGS

Bellucci, B Roentgenological Visualization of the Ependymal Canal in a Case of Hydromyelia (Visualizzazione radiologica del canale dell' ependima in un caso di idromielia) Radiol med , 1934, 21 1418

The case reported was that of a man fifty years of age who entered the clinic complaining of pain which gradually localized in the lumbar region of the spinal cord. On lumbar puncture the cerebrospinal fluid escaped under high pressure. The fluid was turbid and contained many poly nuclears, lymphocytes, and large cells, probably ependymal elements.

As symptoms of partial paralysis of the lower extremities set in, a my clographic examination was made following the introduction of about 2 c.cm of 20 per cent iodized oil into the subarachnoid space of the spinal cord according to the usual technique. The needle was introduced into the intervertebral space between the first and second lumbar vertebra.

The roentgenogram presented a strongly radioopaque line which was identified as the ependymal

canal of the spinal cord

This opaque line measured about 2 mm in width, extended from the seventh thoracic vertebra to about the middle of the twelfth thoracic vertebra, and ended at the upper level of the second lumbar vertebra in a small, cup-like shadow (terminal ventricle of Krause)

The author states that this case is the first to be recorded in the literature in which it was possible to visualize the ependymal canal roentgenographically

In describing the pathologico-anatomical picture he reviews the sequence of events which led to accidental introduction of the iodized oil into the central canal of the cord. In his opinion the picture was that of hydromy elia due to medullary compression following the formation of an ossifiuent abscess invading the spinal canal

RICHARD E SOMMA, MI D

Fletcher, E. M., Woltman, H. W., and Adson, A. W. Sacrococcygeal Chordomata. A Clinical and Pathological Study. Arch. Neurol & Psychiat, 1935, 33 283

The authors review ten cases of sacrococcy geal chordoma which, in their general aspects, resembled

the seventy-five cases reported to date. They state that chordomata of the sacrococcy geal region have been found more frequently in males than in females. The problem of the relation of trauma to the development of such tumors is of interest. Two of the authors' patients giving a history of injury were women. One of these women had suffered a fall on the buttocks forty-six years previously and the other had had a similar injury twelve years previously. In some of the reported cases the symptoms of the tumor dated from the time of an injury

Pain was present in all of the cases reviewed by the authors, and in all but one it was the initial symptom. Tenderness was a common complaint Numbness was recorded as a symptom in seven cases and could be demonstrated in all of the six cases in which the patient was subjected to a neurological examination. Sphincteric disorders were present in eight cases.

In five cases the physicians who had treated the patients earlier had had their attention focused on the presence of hamorrhoids. This is not only interesting, but suggestive. Moreover, adema of the legs in two cases, while not an early sign, and varicose veins of the legs in one case attest to rather frequent interference with the local circulation.

The most valuable examination in these cases was digital exploration of the pelvis through the rectum In nine cases a tumor could be palpated. The authors call attention to the importance of examining the hollow of the sacrum. They state that too frequently the interest of the examiner leads him to limit palpation to the prostate gland and that when this is done even a large sacral tumor may easily escape recognition.

In four of the authors' cases roentgenograms showed evidence of destruction of the sacral vertebræ suggesting the presence of a mahgnant growth In five, the roentgenographic report was negative The authors believe that the incidence of negative findings would probably have been lower if recent improvements in the roentgenological technique had been known at the time the examinations were made No picture diagnostic of chordoma as distinguished from other malignant tumors could be established Studies with 40 per cent iodized poppy-seed oil in the cases of suspected sacrococy geal chordoma may yield diagnostic information before routine roentgenograms become positive

The duration of the illness in the reviewed cases ranged from eight months to eleven years. One patient was alive and in apparently good health nine years after the operation. In the case of one patient who is still living the operation was performed only a year ago. Eight of the patients are dead.

As in cephalic cases, a pre-operative diagnosis of chordoma apparently can be made only by biops. In one case the diagnosis was made in this way before the patient came to the Mayo Clinic In only one case, seen in 1926, was the possibility of a notochord tumor entered on the records. This diagnosis was

made by Pinmmer The situation of the pain, which made by remainer for minarana or the party which is muchly lower than that associated with other candal tumors such as ependymal gliometa, the tendences, the high and early occurrence of perianal amornous, too man and carry occurrence or persons anesthesis, and the spilloctacle disorders are note

The observations made in a study of ten cases of acrossors and chordons abouting wide histological acroscocyates, concusion seasons was a reconstruction that notochorful amora, although they may memble efter epithe ind or mendermal acoptame, have specific characteristics and or measurement acceptances, he we specific course course they may be distinguished Briefly these a ( ) the formation of intracellular hippoton or pute accordated moon-contained caps and extracellular moons ( ) the basence of branch trees ( ) has not mentioned or management of the property of the production of management of the production of t appearons or mage vacaous ten macra-contaminar cara arrangement of the tamor cells, which

(3) a scours attrangement to the tumor cens, since the occasional occurrence recognition of the nuclei and (3) close freeze. beance to notochordal theme as seen in the nuclei pulposi of the intervertebral disks

in most cases of sacral chordons complete re to more cases as sacrat thorneons compacto re moval of the tumor is impossible as it would require movest of the coulte section. However, much case of the coulte section. However, much case the court of the c temporar to the source section towners mean can be accomplished to alsertal pain, retard the growth of the tempor and control the neurological symptoms

by operative measures and radiothers by
In all but one of the cases reviewed the treatment and spont the rame proofs of combiers analysis to an one one or the case it are a complete analysis. are smoot to same memory as commers answers removal as possible source on by roccuses therapy.

In one instance only bloosy was performed before an was measure only cooley was performed before the rocation therapy. Operative measures are employed with the hope of reheying pain and retarding the growth of the tumor

When the tumor is entremely vascular irraduction mode body relates to myastic of the surrounding theory, but hen the famor is carrieginous fractus tion is of bttle value

on in access vacue standard decompression of Sorgical resection of the tunner continuous the section, and improved age to the foreign therapy necessary sour means the growth of the tumor and prolong life

#### PERIPHERAL MERVES

Surrous Isolated Terrors of the Pertpheral Narras Les comers notées des serfs pérsphérait normalisation de serfs pérsphérague). Re-

The author reports four cases of lookated furnors of the peripheral nerves. He gives historical review of the various theories regarding the pathogeness of the various theories regarding the pathogeness of or the Astrono months and their changes from harrest mount of the changes from harrest mount in the changes from the fraction of the changes from the changes f stant toticolo and their cusacionion as periporata generale, neuromata neurofibromata, and peri

A cyce of the literature showed that the chincal partory of those impore is more or less uniform Trauma is considered secondary etiological factor

In 63 per coat of the cases reported in the Sicrature An 03 per time, or the cases reported in the ministers as a network of the arm was imported. The tumors give tory and usually develop in the region of an artice savery sometimency terroray in the regions of an attachmental information of a horre a nerve pierces an internanceality septum They are attached only to the nerve and sero movable. The chief subjective symptom is pain. an mayana a oc must suspend symptom a pain, capetally on movement of the extremity lloter executivy or nevertheless of the currently shows a seathern is unusual although fattleshifty of the extremity may be sorted. The tuncer are usually

discovered by chance, and when first seem by physician are usually the size of a walnut in the differential diagnosis it is necessary to rule out tumors of the akin and subcutaneous theore,

out thinkers to the sain but subcritaneous times, and bone sypowial cysts chronic adesop-Stiples includes mapfarent passons of sexted and You Raci Logis Usen disease The four (unear reported by the author or classified as giornate They were all encapsulated

They presented mysomatous structure ad Grife they presented mysomatous substate at One degeneration On microscopic examination they reputation on increasing community and say mere found to be made up of two types of times (1) a compact man of faultum cells with facthe a temperature many of managements with and regular fibrillary structure, and () loos reticular many of branching stellar cells. The (the states the collection of the coll many or to account present that such immore are formed from the about of the seas tumors are noticed that the same as contain acres elements, and bear only sight relathousand to be recruised, and treat they argue remained to certain comparable temora of the central DELYDRA SYSTEM

As trainment, Sarrow recommends () engineering tion, when possible or () resection of the lamor and ton, when properties should be reserved for the less paborts at parties O B. Joses Jr. H.D.

Grenot, H. Ducroquec, R., Issac-Coorges, P. and stort, H. Discripton: No instructionages, a man March 11 Neurofficometods with Getterson and Boay Changes (Forms frast parameters and Pay Association). man anny comminger (Forms Heatr paymentaire onescent de la accordioremation) Press and Par

Bone lesions have not generally received sufficient the second serve one process returns amount attention as an executial part of the co-difion knows as you Reckinghouse theese A review of the as you recognizes com masse of revers of the literal anomales often he re code e colored marks on the ston identical with those found in you Reckingheness there with stage issued in your asceningsweets self-bough there may be so neuroexata or cubacous

Some individuals a th you Reckingbassen desees bacterious anomapes of a consecutal to be such as dislocation of the hip and apms hidds. There is also group about of bony dystrophias rescaling octomaticae As the funit of this condition de formules of the spane, face, head, or thorax may be present, apontaneous fractures may occur any penerat, sometiments rectates only total decrease in the density of the boses is about to roentgen exammation MARKET W. POOLE, M.D.

made by Plummer. The altuation of the peln, which nacco by running. The situation of the pain, which is the that that associated with other a contail furnors such as opendymal gliomats, the causar tunner such as thermymas grammas, and the indemental the high and early occurrence of periant semesthesis, and the sphinotetic disorders are note-

The observations made in a study of ten cases of The conservations makes in a study or ten cases or accommod scal chordons showing a kie histological security and constraint assuring a new memory and variation have led to the conclusion that notochorial rain uses may be the compression and nonconstraint monoconstraint monoconstraint may be action of the company o tamen, attacaga toep may escenses enter theme ner or mercouri mer nergename, mayo specime charac-icrialics by which they may be distinguished triesy these are ( ) the formation of intracellular hipotona of p archopated meeti-contained cips and attracepara micra (1) the beauties of intracement of attraces and the property of the production of intracement of the production of the produ (1) a lobelist transferrent of the timos cells which (1) a average (a) the occasional occurrence of varuolation of the model and (5) close resen or vacuous non or the process can the target comments of the color pulposi of the intervertebral disks.

upon or the munyer cover man.

In most cases of sacral chordons complete re-An interior cases or sacrat cases come competes re-moved of the tumor is impossible as it would require innoval of the crift. Secrim Houses much cri tenorate the caut merum, tion ever much can be eccomplished to alleviat pain, retard the growth to compliance to anythic feet, starte one give in of the fumor and control the neutrological symptoms of the fumor and control the neutrological symptoms.

y operate assumed and recommendately all but one of the Cases reviewed the treatment As at lost the of the cases reviewed the internent sea about the same, namely as complete surject removal as possible followed by resulten therapy imoval as possume mouse on by tocates and paper in one instance only biopsy was performed before to one inscarse only proper was persumed percent the rounteen therapy. Operative measures are moto routen therepy Operative measures are en-ployed with the hope of relieving pain and retarding the growth of the furner

when the tumor is extremely vascular trachetion undoubledly rate do its investor of the correcting unconditions from the tamor is carefusfaces bradia-

on as on active value.

Surgical resection of the tumor decompression of the sacrum, and high voltage moniton therapy the sacrum, and ough voltage roomigen therapy cheve pain, retard the growth of the future and prolong life

#### PERIPHERAL NERVES

Sarroete Isolated Turnors of the Perlpheral Navae otte Astantau sumore or the recipoctative re-Les Assents molées des auch periphérapies. Re-

The author reports for cases of notated tumors the peripheral nerves if press historical series of the various theories regarding the ps theories of the various theories regarding the ps theories of such timots and their crassivestion as beningers; or the account of the constraints and parameters of the constraints are parameters and the constraints are parameters and the constraints are presented to the constraints and the constraints are constraints and constraints are constraints are constraints and constraints are constraints are constraints and constraints are constraints and constraints are constraints and constraints are constraints are constraints. someta, neuromata, neurofibromata, and part-

A review of the literat re showed that the choical relative of these tamors is more or less maform Traums is considered secondary etological factor

In 63 per cast of the cases reported in the interature a norm of the arm was involved. The funors grow A pervisor towarm was investor. A section of an arrico-sionly and usually develop in the region of an arricolation or bers a nerve pierces a intermerchar ation or ners a near plants in micromonous septem. They are attached only to the nerve and acytom they are attached only to the nerve and are movable. The chief subjective symptom is peak are navranse. I no court subjective symptoms of per-especially on morement of the extremity. Motor especially on morement or the materiary of the mentions is common animonal management or the cardinally may be noted. The functors are meanly causing may be noted. The tumore are mean discovered by chance, and a ben first seen by physician are meanly the size of a walkent.

a the differential disposis 1 is necessary to rule The concentration of the aim and subcustances (sense) ( time of the aim and subcustances (sense) out immors or the same same supernaneous immors, and hone s) howful () six chronic adexopinterests and more at normal types tumber sometimes action and management furnies of server and

The four turnors reported by the uther ners changed as glomata. They were all encapsulated They prosected symmetries affective and cycles Any presented invasional accounts and the conference of the confer depresentation. On microscopic examinations they are found to be made up of its types of these of the compact mass of indices eath with fine. Garlet Shrillsty structure, and ( ) a loose reticals: came of branching strikes cells. The author Males that such (umors are formed from the shreth of tant some tumors are names from the summer of Schrann and are of ectodermal origin. They do not contrin peri elements, and beer only a alight rela-Country t certain comparable furnies of the central

ervoir system.
As treetment, Sarroat recommends () cancles. tion, a hen possible, or ( ) resection of the timer and tens, som pressure, tr / resection of the numer and herry. The latter procedure should be conved for the less important nerves OW Jones, J. M.D.

Greet, H., Doctoquet, R., Issue-Coorses, P. and March, M., Assorotheromatosis ith Cuttowers Mand Bony Charles (Form Instead to Cattories and Bony Charles (Form Instead parameter et actrodistantes) Freits and Far

Bone icaions have not generall, received sufficient attention as attention as casembal part of the condition know. as you Reckinghatism discuss A review of the as you secammanases to come of the come of off in have codes colored marks on the stra identical orten nave conse-convenu manas on the name seemen with those found in you Recklingbassen cheese atthough there may be no neuromata or cetaneous

Some individuals like on Reckinghamen deeaso present various anomalias of congenital pe such as deslocation of the hip and spine based. There is also a group aboving bony dystropless resembling octoorsizers. As the result of this condition de occurate as the result or the towns or formulas of the spine, face, head, or thorax may be protect sportaneous fracture may occur and decrease in the density of the bones in shore by roentgos examination MARKE II POOLE, V.D.

cancers of the small round-cell variety, six squamous epithelial cancers, one keratinizing epidermoid carcinoma, and one adenocarcinoma. The tuberculous lesion was of the healing fibrotic type and apparently of long standing. Most of the patients had had a cough for a number of years. In two cases there had probably been a recent dissemination of the bacillary infection causing a slight exacerbation in which the advancing cancer may have played both a biological rôle by lowering the patient's resistance and a mechanical rôle. In some of the cases the malignant condition developed independently of the tuberculous disease, while in others it was engrafted on the old fibrotic infection.

Two morbid conditions may be associated in the same organ in one of two ways. They may meet accidentally or one may play a rôle in the causation of the other. The author's cases presented both possibilities.

As cancer is a debilitating disease it is occasionally complicated by an exacerbation of a pre-existing smoldering tuberculous process. It is noteworthy, however, that in a few of the reviewed cases in which active tuberculosis developed subsequent to carcinoma the infectious disease was confined to the lung involved by the tumor. It is possible that in these cases the release of the "immured" tubercle bacilli was due to immunological as well as mechanical factors.

The problem of whether pulmonary tuberculosis may be responsible for the initiation of a primary carcinoma of the lung has been a subject of discussion. Some investigators have agreed that in many cases there has been an etiological relationship between the two maladies, and the literature contains reports of cases of cancer originating in a tuberculous cavity or a tuberculous scar. However, careful study shows that cancer cells found in a tuberculous cavity had their origin in the bronchial wall and invaded the cavity secondarily.

The author emphasizes that the possibility of malignant disease should be considered in the cases of all persons of middle age or older who are suffering from a chronic pulmonary affection with persistent symptoms, particularly when there has been a progressive loss of weight and strength, and that the presence of pulmonary tuberculosis does not exclude the presence of a malignant process in the same lung JOSEPH K. NARAT, M. D.

#### Johns, E. P., and Sharpe, W. C. Primary Pulmonary Sarcoma Am. J. Cancer, 1935, 23, 45

The incidence of intrathoracic tumors shows an apparent increase which is much more rapid than can be explained by the general increase in the incidence of cancer and is probably due to better diagnostic methods and increased human longevity. It is evident, however, that the increase resulting from improvement in diagnosis is due to the more frequent recognition of pulmonary carcinoma. Primary sarcoma of the lungs still remains an obscure and comparatively rare condition

The authors report a case of primary pulmonary sarcoma in a patient eighteen years of age who complained of a persistent cough, hæmoptysis, and slight loss of weight. Physical examination revealed impairment of resonance over the upper right chest and widening of mediastinal dullness in the first and second right interspaces anteriorly and in the interscapular region on the right side posteriorly. Over the first and second interspaces anteriorly the breath sounds were bronchovesicular in type. The heart seemed to be slightly enlarged to the left, and a systolic murmur was heard about half way between the pulmonic and mitral areas.

Repeated sputum tests were negative for acidfast organisms. Stereoroentgenograms of the chest revealed a moderately dense, homogeneous circular, discrete deposit 25 in. in diameter occupying the inner half of the right first and second interspaces

Death occurred fifteen months after the onset of the symptoms

At autopsy, the right pleural cavity was found practically obliterated by firm fibrous adhesions and it was impossible to remove the right lung intact On removal, the lung was discovered to be replaced almost entirely by a crumbly, grayishwhite, hæmorrhagic tumor mass. Only a narrow rim of atelectatic lung tissue was seen about the margin of the new growth. The tumor was very frable and broke off readily into large, soft, translucent, grayish-white masses Throughout, it showed extensive hamorrhage. Its central portion appeared to be cystic and filled with blood clot and necrotic tissue Medially, it could be traced into and along the right main bronchus to a point about 15 cm above the bifurcation of the trachea The right bronchus was entirely occluded, and the growth encroached on the opening of the left main bronchus. The tumor was not attached to the bronchial mucosa, it appeared to be growing along the lumen of the bronchus It occupied also the lumen of the right pulmonary vein and extended along this structure into the left auricle. The left auricle was practically filled by a firm, brownish-red, oval mass of tumor measuring about 4 by 2 cm. The tumor lay free in the auricle, but appeared to have invaded the intimal lining of the vein. There was definite obstruction of the auriculoventricular valve The left lung presented a number of small, firm, discrete nodules, the largest of which was about 4 mm in diameter The liver appeared normal externally, but on section presented several small nodules, the largest of which was about 5 mm in diameter

On microscopic examination the tumor was found to be extremely cellular and composed of round and spindle cells

Exclusive of pulmonary lymphosarcoma, which is not regarded as primary in the lung, pulmonary sarcomata are usually classified on a morphological basis into two groups—spindle-cell sarcomata and round cell sarcomata. The spindle-cell sarcoma, the more common type, occurs as a circumscribed tumor in elderly persons. It usually grows slowly and

he developed in cases which acre definitely inoper able. Its object is irradiction of the breast, the saille, the appraciavicular region, and the medi-

Into the broast Hutchleon inserts needles in three planes parallel with each other and superimposed to section partition with each other and separamposed to form a cone with its point at the alpphe. The lower plans consists of periles inserted from the periphery of the beneat, undercutting the breast fiself at its bess. These needles are parallel with each othernot arranged in the form of the spokes of a berl not assume as the control of the con above and below but not in the Central portion anderlying the mpple. The second plane consists of another group of needles inserted in the same mannor but located balfa y between the best plane and the point of the herag, the nipple. Of necessity the the pant of these needle approach each other morn pants or transfer appropriate the deepest plane The last and most superficial plane consists of a dagle radium needle inserted just beneath the sreek at right angles to all the other needles. This final peculie covers the region at the spec of the cone not strongly applicately concred by the quibal its case of of satisfactive feet with contral some adequately The effect achieved is that of a coose irradiated but not containing needles

In the anila the anthor inserts peculier from below speard in the anterior and posterior anilary folds, in the chest wall and in the lateral amilely wall in close relationship to the great vessels where the let for enter the upper arm. The general effect is that of a cylinder of needles in the four valls of the anila The aper of the anila is covered by inserting two or three needles baselled alth and less pelos. the clayles, positing laterally two or more needles from above down and, above and behind the clayle's into the spex of the snils and three needles from before backward tangential to the ribe just below

The supraciavicular area is irradiated by inserting three needles into the sternockedomastoid muscle cores messages muo une surmanessurumentari muocas from its medial border interals and and then introducing three needles across the posterior triangle of the neck so that they almost but not quite meet the the next so that they attached the second of the first three needles. In addition, needle is issuited vertically across the beads of each of these two groups of needles (in the relation of the back of

the mediastisms is traducted by introductor three gold seeds into the anterior mechanicum targe and section into the specific for intercental spaces The insertion is made obliquely ( the edge of the sternum and under the edge of each of the adjacent ribs, one seed being deposited at each of these points.

After all of the needles have been introduced storegoopic romigmograms are made to verify their distribution The needles are left in position for extrem days. The sam is placed in suitable splint Egint augus to the thor patients have been

FILE-curse or the thor parieties neve occur ireated in this manner—th gratifying results, but the

series is too small to warrant defents conclusions J DAME BRILLING MD

# TRACHRA, LUNGS, AND PLEURA

Overbolt, R. H., and Pilcher L. S., had Chapter in ring it, at. it., and rinther is, as, and changes in Veneza Frantire After Thorseoplasty; its dis-nificance in Relation t the Estant of Rils Re moral J Threen Sury 915, 41 mg.

Estimations of remous pressure a ste made before and after operation in a series of cases is such thorsoplasty was done. The significant alterations of senious pressure found occurred on only one ade or predominantly on one side. It is important to diamental between unlateral elevation of the renous pressurs which is of mechanical origin and gracralled elevation of the venous pressur which as of cardiac origin. As none of the cases showing unpristal exaction of the Actions based because making managed on the comes amounted managed on th expressed of carchec justificiance. If was samued that the venous disturbance was due to local me chanical conditions resulting from the change or panelly about by the collabse baccama-

In the cases with underest elevation of the nous pressure before the operation the cierated

presents was corrected by the thorscoplesty When the first stage of the operation is finished to the upper three or four ribs there is kettle rischlood

of datastiss a normal pre-operative venose presents The caction of more than four rise (completely or in long asymmetry frequently disturbs the vesses

When the second stage of thorsemplany is per formed within two weeks after the first, as cierated venous person too weeks after the first, as cirrated expected, on the ade operated spon may be

The authors were impressed with the relationship person postoperative elevated venous pressure and act a se considered poor toleration to the amount of collapse. An circusted venous pressure has second to indicate an excessive degree of collepse

Know ledge of the condition of the venous circular tion optained ph measurement of the among bisseries has seemed to be of value as t has added in the estimatics of the artest of no removal which will mean and markin of super's quinte consequences and It has been one of the factors convincing the authors that the second operation should not be done so tions the section operation account not be been as effect of a too-extensive single operation

Fried, B. M. Bromchlostenic Cancer Combined with T berculous of the Lungs. Am J. Comm

Fried reports thirteen cases in which both taber

culous and cancer are present in the same lang transparent content are present to the sense long five to averally-one years. In ten cases the trans-five to averally-one years. In ten cases the transwas on the left side and in three on the right side. The Poer lobe was involved in oleven cases and the lower lobe in two. The neoplemes included five

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without the formation of metastascs. The roundwithout the normation of metastance. The round-cell acroma, a very colladar tensor composed of a colladar tensor composed of the colladar persons. arge or aman round cens, occurs in young persons and progresses rapidly. It is apt to be accompanied and progresses rapady. It is api to be accompanied by hemorrhage and necrosis, but show little tend-

oncy to metastarize

acy to metastastic.

The tumor described by the authors presented

The tumor described by the authors presented points of resemblance to both types. Histologically points of reambiance to both types Histologically points of cells are quite similar and unthe two types of cetts are quite similar and un-doubtedly have their origin in a common progenitor doubtedly have their origin in a common programor. The variation in the cells is due to stages in the And wanted in the cent is due to stages in the differentiation of the original cell type, the spindle cell being the more mature form. This interpretation cell being the more mature form. This interpretation in agreed that the morphological classification represents only a superficial difference in the various sents only a supernorm uncernce in the various serrounate of the lung, and that primary personners serrounate only a supernorm uncernce in the various serrounate only a supernorm uncernce in the various serrounate only a supernorm uncernce in the various serrounate only a supernorm uncernorm. bosed of abjude cells arms form posed of spindie cells arms I on common cell type, the variation in cells being due to stagm in the differentiation of the primitive mesonchymal

H. By some, the septal cells are believed to belong By some, the septal casts are betieved to belong to the reticulo-endothelial systom. This conception to the returnio-endotherms system. This conception of the mesodermal origin of the septal cells makes it or the mesonemat origin or the septet cent makes it causer to understand the development of earnous easist to understand the development of exceeding the polimonary alread and suggests a possible source to the timot in the case telestand softrance to the timotal in the case telestand softrance.

JOSEPH K NAMES, M. D.

### HEART AND PERICARDIUM

nates, I. The Experimental Perhabilical Against of Perhabilical (Academa participal Archive in the factors)

Following a review of the characteristics of the tache types of pencarditis which have been deteams types of pencarous a mm nave peen on-inquished on pathologico-anatomical or etio-pathogonic basis, the author reports experiments pathogonic pant, the author reports experiments which he carried out on dops to study the successive which he certified out on dops to many the entities were supported to the condition and the sages of the development of the condition and the effect of the percurditis on the myocardium. The balicatellity was bacqueed in the adherences are milerated to the beautiful on the milerated and the second of the property of personance was promoted to the experiments ammans by severing reason assembled into the Periodical by fivent See examination Lious rights to one parented and any days after the injection the animals acre early cays arest the injection the ammass were talled and the pericardium and m) ocardium examand and the personnel and my ocaling their macroscopically and microscopically

In discussing the results of these experiments Armshoo calls tiention to the difficulty of compar occurrence came recovers on the numerous or comparing the rifficially produced associa inflammatory any time (timestry products) asserts; minimizatory demons with those occurring in chirical cases as the sensors a us more occurring to custom cases as the result of infection. The seventy of the changes is the pericardism and invocardism are found to be the personners and invocations is a more to re-roughly proportional to the concentration of the solution injected, and the invocardial damage varied sources myering and the myocardan survey are he find in degree with the performini mynry. From his find-ipp it the author concludes that in the surpery of the treatment to the continue of the condition of percarding to of the Period importance

ELOES T LEGGT M D

CESOPHAGUE AND MINDIASTINUM O. Sastioned Localin Bodies (Capit. low O. Swallowed Foreign Bodies (Unic enchlosite Frenchomps). Acts clearly Send 915.70 61

The author for lens 5 cracs of sa allowed foreign The author reviews 5 cases of an attorned sensing bodies which were treated in 7 large Swedish Hosbodies which were treated in y large Sweezen time plink during the period from or to topp In all person curring the period from \$61 to 1929 in an, the clinical diagnosis as proved by apostancous the cunical magnosis as proved by sponsascool exacusation, operation, or rocaligns examination The eracuation, operation, or roentgen examination are surreliability of the listory is emphasized. The cases arrenamicy of the instory is emphasized. The cases are classified according to the nature of the object are classified according to the nature of the colect resultowed. The author states that the majority of swallowed. The author states that the majority of availoused objects are evacuated apostoneously with as allowed on sects are evacuated spontaneously with-out causing the slightest trouble or discounter, Such is the case when the object is noted consumer own exactuation may be expected also in the case of obexpectation may be expected also in the case of ob-jects which are pointed at one end only such as ordinary plan, salely plan, thereb latch, such as excess plan, salely plan, thereb latch, such as accessed to the color hand, experience shows that

acres to the other mand, superiones shows that objects which are pointed at both ends (such as objects which are pointed at bota enter (suce as needing) reachly become fixed and give rise to severe nectural results became and and pivo use to severe compactations. Fermion therefore petieves that pa-tients a bo have awallowed an object which is pointed tents a porty endra sastion ed au oblect anneu in bousen at porty endra sparitos ed au oblect anneu in bousen scheduler to a possibility applies those ago by analloand objects of other these man are as another objects of other these most are as a state of the second of th sections of colors of orton tibes may meanly or extraored coloris of orton tibes may meanly or aryx under operwation as out-patients. He repaire reentgen examination as excented to determine the

nearise of the swallowed object. He ompossizes that tegrace spooring never per birects on the percets spooring never the conbensus results on the secrets of the conbensus results on the secrets of the conbensus results of t a smooth parket on the cases takes of countries of the cases takes of operation (manally gastrotomy) was done to remove the foreign body but the author believes that in most the sorting body but the author believes that in most of them it was not indicated as they were no sympof them it was not indicated as their series so synanto save life in only a few cases. The reason for most to save use its only a sew cases. Any reason see more of the early operations seems to have been the first

that aboutaneous exercistion world not occur, or make new control of the control are appointments were account to which the foreign And writer appears I cases in winco the company became ledged in the crooping on and its extracthan by despite seacopy, as out of the question. By toon by consumptionary as out to the foreign body was means of a said summer tune the sorings your was way of the intestines

ay or the intercines Finally Persion reports in detail four cases of Finally Actions reports as occasi and cases of foreign bodies lodged in the lowest portlos of the enobystim in appen tabories system to section or the system course sorted in the water barron or the ph cooling cocohy a cas menocosting. It sig of these confined as a sum telescent strengths at a strength of the confined as a sum of the confined oy enoparguecopy were unancreasus. He as or trees cases the foreign body was removed by laparetony. The storagh was opened sufficiently to allow the And accounted was opened autocounty to same on whole hand to be introduced and the foreign body brought out through the ca die by means of lorg pair of forceps

arr or rotteba A the animos opinion most cases of saxonion foreign body should be treated espectaally by the administration of bulky foods and restriction of attended at possible the passage of the foreign body mans at possesse the passage or the section of the should be followed by rootigen examination. If the forum body tands a remain in the stonach, the nement should be put t bed on his right side. If h emuns in the circum to one rd penetre is best furthered by raising the foot of the bed

The author warns against giving laxatives. In his opinion operation is not indicated unless intestinal symptoms or symptoms of peritoritis appear or until repeated roentgen examinations have shown the foreign hody to be impacted. A roentgen examination should be made immediately before the operation

Austoni, A Cleatricial Stenosis of the Esophagus, Indications for and Late Results of Its Treatment (Stenos: cicatriziali dell'esofago, nuovo contributo all'indirizzo di cura e sugli esiti a distanza) Clin chir, 1934, 10 1206

Austoni, Chief Surgeon of the Municipal Hospital of Verona, reports in detail a case of cicatricial stenosis of the esophagus of long standing in which, after other methods of treatment had failed, retrograde dilatation with a sound produced a clinical cure He discusses also six cases in which a good result was obtained by the same procedure from ten to twenty years ago. He emphasizes that in even very severe cases, retrograde dilatation may result in a permanent cure if it is carried out far enough (to at least the passage of a No 34 dilator) and is continued until there is no further tendency of the stenosis to contract. As many cicatricial stenoses have a tendency to become recanalized spontaneously to a degree sufficient for the passage of a thread attached to a dilator, the surgeon should not be too hasty in concluding that a given stenosis cannot be dilated Austoni has found retrograde dilatation safer and generally more satisfactory than other methods of treatment He shows its results in two cases by roentgenograms He is of the opinion that in all cases of lye burns of the esophagus early retrograde intubation of the esophagus is advisable to prevent cicatricial stenosis or to facilitate treatment of that condition in the initial stages

EUCENE T LEDDY, M D

Incze, J A Case of Primary Tuberculosis of the Esophagus (Em Fall von primaerer Speiseroehrentuberkulose) Arch f path Anat, 1934, 293 540

Tuberculous disease of the esophagus is extremely rare. It is usually the result of implantation of the infection following an erosion, encroachment from the surroundings, or hæmatogenic or lymphogenic infection. Primary tuberculosis of the esophagus has never heen reported heretofore.

The case of primary tuherculosis of the cosphagus reported by the author was that of an idiot boy ten years of age who, twenty months before his death, swallowed caustic soda and developed a stricture of the cosphagus. For a time he was nourished through a gastric fistula. After dilatation of the stricture the fistula was closed. Death resulted from miliary tuberculosis.

Autopsy revealed, in addition to miliary tuberculosis, two constrictions of the esophagus, one posterior to the cricoid cartilage and the other at the level of the bifurcation Between the two strictures the lumen was somewhat dilated and the

mucosa entirely denuded of epithelium. The entire thickness of the wall of the æsophagus was infiltrated with tuberculous nodes varying in size from that of a millet seed to that of a pea. Some of the nodes were caseous. In the connective tissue around the æsophagus in this region were large lymph nodes, some of which were entirely caseous. In the other organs only miliary tubercles were found. It was apparent, therefore, that the tuberculosis developed first in the æsophagus in the region of an epithelial defect produced by the action of the caustic soda and that the miliary tuberculosis was secondary.

(SALZER) LOUIS NEUWELT, M. D.

### MISCELLANEOUS

Dunhill, Sir T Diaphragmatic Hernia Brit J Surg, 1935, 22 475

Dunhill reviews twenty-five cases of diaphragmatic herma. In eleven, the esophagus was of normal length and a part or all of one or more abdominal organs was hermated into the thoracic cavity. In the fourteen others the esophagus was congenitally short and a portion of the stomach was in the thorax. Of the eleven patients with an esophagus of normal length, eight were carefully investigated clinically and roentgenologically and finally operated upon. The fourteen patients with a short esophagus were studied less completely as most of them were not treated surgically.

The cases were classified according to the site at which the abdominal organ or organs entered the thorax. As none of the hermin had followed a known injury, they were all assumed to be of congenital origin. The sites of the hermal orifices were as follows retrosternal region, one case, left dome, two cases, costovertebral region, three cases, and cesophageal region, nineteen cases. The cases in which the hermal orifice was in the cesophageal region included three of herma diaphragmatica transversa, two of para-cesophageal herma, and four-teen of short cesophagus.

In the case of hernia through the retrosternal attachment of the diaphragm a barium meal or an enema showed the termination of the ileum, the cæcum, the appendix, the ascending colon and the transverse colon in the thorax. There was no splenic flexure, on leaving the thorax the colon descended directly to the left iliac fossa. The œsophagus entered the abdomen in the normal position, posterior to the pericardium, while the herniated viscera entered the thorax anteriorly immediately behind the lower end of the sternum. The sac and its contents occupied the anterior mediastinum, resting against the pericardium and pleura on the left and displacing the right pleura and lung hackward and to the right.

In the cases of herma through the left dome of the diaphragm the hermation was actually through the substance of the diaphragm—not through any of the natural openings Roentgenograms showed the cardia and the pylonc portion of the stomach in the

abdomen, but a large portion of the middle of the abdoness, but a surge portion of the smoons or the Momach in the left thomas, displacing the mediasi-Momach in the set thorax, displacing the mediasti-num, pericardum, and heart to the right. At num, persearchum, and heart to the right. At operation no peritoneal asc was found. Dense adoperation no positionesi sac was found. Dense ad-hexious bound the stomach to the margins of the hesions bound the stomach to the margins or the ordice and to the compressed lung. The stomach was ordiced on its axis, and the spicen was above the meters on its and, and the specen was above the disputages. Ino stomach was greatly dusted and filled with gas Dodation was necessary before it much with gas Donation was accessary powers in could be replaced in the abdomen Gastrostomy could be replaced in the andomen tentrostomy was done to give temporary cut to its gasoons con-tents and relieve the patient of postoperative discomfort

scontort.
Roentsucceptcal cramination of the berale Koentgenological crammation or the nerma through the contovertebral angle aboved. (1) por through the contoverteness angle answer. (1) per tion of the stomach and transverse cokes in the left tion of the stomach and transverse coses in the sett thorax (s) the whole stomach, including both thorax (4) the abose stomach, memoning poors, in the thorax and (4) the stomach angulated orthons, in the thorax and (1) the stomach angusted over the edge of the displaring. The author states as each of these three cases the herals, was due to is each of these three cases the permit was due to congenital absence of the left crus and the mescalar congenital ansence or the ser crus and the interested nners continuous with it. In one of the cases both disputation having no crura were absent, too cusporage naving no posterior attachment in the region of the vertebral

samm. Hernine in the region of the asophagus are of the Harms in the region of the disopolarus are of the following three suttrely different anatomical types wing outer sources of outers and control types.

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and perfectly free posterior margin of the displaying. and perfectly tree posterior margin or the dispursion a back bounds the sac anteriorly and the virtebral a bach bounds the sec anteriorry and the verticora-column and the adjoining parts of the paravertebral el defined grooves which bound it posteriorly Each the bestmerel are around into the bosterior.

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\*\*Months among more around into the boster gap the personnel are ascense into the posterior mediastinum. The defect is therefore behind the incomplete disphragm neone majorragin Para-caophagosi berma In this condition the

Personopas per arrais in this commisso toe historis is present but dilated. The heralal sac passes and the present put directly and beautiful are present put directly and beautiful and and beautif 5 throne associated with conductor the cardia and a portion of the stomach are situated within the conscitally short portions on the secondary are secondary attent to the thorax. The hermated portion of the storage h surrounded by peritogral sac, so that true bernaseries. The storrach is the shape of an hourselses, the cardiac localus being a thin the thorax and the pylonic loculus within the abdomen In disphragmatic being the s) inplome simulate

those due to fall stones. I Dynair Market N.D. Forty F Consenital Herois Through the Right Come of the Displaragm. Best / Sury 505 er

The author reports a case of acuts intestinal obstruction in man seventy ) cars old which was consed by a hernia in the right dome of the dia phragm, the rarret site of chaptersmane herms The patient complained of constipation of ax Ane panent compensate of cosmostor of the condition, bowel action had always been regular. The

consulpation as accompanied by general abdominal pain, frequent romiting, and hierosphine, Many pain, iroquent vomiting, and hieconghing. Many years previously the patient had been kicked in the years previously the patient may been excised in the cheat when he fell from a horse. On examination, he chest when he led from a horse. On examination, he seemed in good general health. The abdomen was second in good general health. The abdomen was apparently distended and generally tender and conapparently distended and generally tender and con-fained free field. At operation, the free field as tained free finit. At operation, the free field as found to be blood-stained and the entire small interfound to be blood-stained and the entire small lat-tine distended and congested. On investigation,

tine materials and congested. On investigation, circular opening a sa sert in the right dome of the curring opening was ser in the figur come or the displaying. Through this opening approximately the last 5 ft. of the small intestine had passed into the last 5 ft. of the small intestine had passed into the right pleural cavity this accounting for the the ngat permai cavity this accorating for the development of the intestinal obstruction. The exhibitions of the internal contains 1906 activities of the change and the container of the appendix and penned up through the opening along with the intention. The execute lay immodularly below the disphraum

ctow the dispursum.

The patient died a few hours after the operation, to patient used a new noors after the operation, apparently of paralytic fleus. On postmortess cramapparently of paralytic news. On postmorters causination an almost circular opening. M in in disaster was found in the right dome of the dispirage insecwas much in the right come of the displacem insection of districts to the right of the reforming Posteriori, the opening as bounded by the right leaf of the tine opening as nonneed by the inger seat or the control fender. Anteriorly and laterally the contain central tenom. Amenony and atmany to towards their of the disphram ended in its margin. means mens or the majorism ended in its majora. The pleasal and periloncal cavities communicated the person and purposest cavities communicated freely through the opening. A braid Mc as treat through the opening of memors are as parties a cas continuous over the market of the observed a case continuous over the market of the observed and the continuous account and the parties are parties as a continuous over the market of the observed as a continuous over the market of the observed as a continuous over the market of the observed as a continuous over the market of the observed as a continuous over the market of the observed as a continuous over the market of the observed as a continuous over the market of the observed as a continuous over the market of the observed as a continuous over the market of the observed as a continuous over the market of the observed as a continuous over the market of the observed as a continuous over the market of the observed as a continuous over the market of the observed as a continuous over the observed as nesting a ere continuous over the margin or the open-ing, which was perfectly amount and free from ad

Tracedale, P. R. Disphragmatic Revale at the Geophageal History, the Ebort Graphages. I DANGE WILLIAM M.D. tanoposessi iliatus, the Short Gaopassasand Thoracic Stomach. Kru Kapland J. Mal

The author reports the fourth of a sense of air Case of disphragmatic herds at the exceptance the calls attention to the similarity of the symptoms to those of augins pactors. In repairing these barnie he has found the transitoracie parting these farmer on the strain the transmissions approach best because () n is easier to cut down on a hernia than to pull it from within, () adhesions on a section time to pair it stors witcom, ( / summers, which mentily form between the hermal are and the thoracle nears re rable, and (3) the bernial me can be removed or plicated

From study of the reported cases of congressial short crophagus and thorace stomach and of the takes temporaries and moracle stomach and or the embryology of the employing, displanging, and stomach to concludes that the length of the couple against the concludes that the length of the couple of the concludes against the function of the stomach again is experience upon the transice or the accommodor award. In the cormal position the storact is palled down by the hyer transverse color, and onemton. This traction is transmitted to the craphings and lengthern it. When it is absent the casphagus remains short try frequently there is a contradial enlargment of the cracphaged listens

On the bank of these facts and the findings of his anatomical dissections and operations, Truesdate advances a new theory regarding the origin of congenital about coopingue and thorace storach According to this theory the thorace storach

is the result of hermation through a congenital enlargement of the esophageal hiatus and may occur at any time after hirth. If the hiatus closes hefore the stomach returns to the ahdomen the stomach remains in the chest and establishes itself behind the pericardium. This causes a slight slack in the esophagus which is taken up by future growth. However, continuous traction on the esophagus is lacking and the esophagus remains short.

Samuel Perlow, M. D.

Rigler L G, and Eneboe, J B The Incidence of Hiatus Hernia in Pregnant Women and Its Significance J Thoracic Surg, 1935, 4 262

A roentgen examination of the stomach was made in the cases of 195 women in the third trimester of pregnancy. A small hermia through the cesophageal hiatus was found in 12 I per cent of the entire number and 18 I per cent of the multiparæ. In 7 cases the hermia was not demonstrable after parturition. There was no definite correlation of symptoms with the hermia. Increased intra-ahdominal pressure such as is produced by pregnancy, especially when repeated, appears to be an exciting cause for the formation of cesophageal hiatus herniæ, even in young women.

Jacob M. Mora, M.D.

Andrus, W DeW Report of the Chest-Tumor Registry J Thoracic Surg , 1935, 4 236

At the present time the Chest-Tumor Registry contains records of 155 cases of chest tumors. These cover a wide variety of neoplasms and have been suhmitted from 28 clinics. In addition, roentgenograms made in 22 cases, photographs made in 16 cases, microscopic sections of 36 neoplasms, and tissue from 3 tumors are included in the files. This report deals with the 117 cases in which the diagnosis was definitely confirmed by biopsy, autopsy, or operative removal of the tumor. The remaining 38 cases were those in which the diagnosis was unproved and a few cases of metastatic tumors.

The types of tumor and the number of each type are as follows primary carcinoma of the lung, 64, sarcoma of the chest wall, 16, lipoma of the mediastinum, 3, intrathoracic ganglioneuroma, 2, osteoma of the rihs, 2, echinococcus cyst of the lung, 1, sarcoma of the pleura, 1, sarcoma of the mediastinum, 7, mediastinul Hodgkin's disease, 2, myxoma of the mediastinum, 1, carcinoma of the mediastinum, 1, cysts of the lung, 2, pleural endothelioma, 4, sarcoma of the lung, 4, and dermoid cyst of the mediastinum, 7 A brief review of the various lesions is presented

Jacob M Mora, M D

## SURGERY OF THE ABDOMEN

Aorinder, E. Complexition of Foreign Radies in the Stormack (for Kinglands of Foreign Radies in the Stormack (for Kinglands of Energiation) the Stormach (Ler Kenntals der Kompielatsonen 1955, 70 1d. Magen) die Chwerg

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sider 199 wire traced. Of the latter garangement (CFT) and proved by 1 (FFT) and 199 (CFT) and 199 ( of gratto-closed system are made in the cases of

Of 38 traced partients who were subjected to Billings I obeiston for quoques sice, by 13s traced battests ayo a us sub-Efficient I operation for disorderal about the past of spaces to the hast of spaces. or pastion) what more a semand on the base of sympto-toms in the case of s ( per cent) Of symbolic subjected to Editorb I operation for pastic city. appetrole man photos were demonstrated defaults,

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It is a further that of the 416 patients traced of the total of 644, bo note treated for patients traced of the total of 644. nouse note craticology accountry. Interest for Savan The author concludes that secondary sixta occur. A hour states of palents and octed to posterior

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traced these the results in the cases repairing more than one surpoid. After online is one invaring sour taga one surgicul alert endon at onsomen a on found that reasonably good reaghs or obstood in

39 per cent but symptoms were still present in 9 per cent. Including operative deaths and deaths from secondary ulcers without surgery, the total number of deaths was 104. This means that 22.7 per cent of the patients suffering from secondary ulceration are known to have died. The complication of secondary ulceration is therefore disastrous.

Survey J. Focklson, M.D.

Grilli, A. A Contribution to the Clinical and Roentgenological Study of Postoperative Peptic Ulcer (Contributo allo studio chinco-radiologico dell'ulcera peptica post-operatona) Radiol med, 1934, 21 1361

The reported incidence of postoperative peptic ulcer varies from 14 per cent (Balfour) to 33 per

cent (Berg)

The lesion occurs far more frequently in males than in females and is most common between the thirtieth and fortieth years of age. It may occur immediately or many years after gastro-enterostomy, but the average period of time between the operation and its development is from two to four years

It usually occurs at the stoma of the anastomosis It may be single or multiple. It has occurred after every type of gastro enterostomy Anatomically, the pathological changes are similar to those of gastnc or duodenal ulcer They may be limited to the mucosa, involve all of the coats, or perforate Their pathogenesis has not been determined definitely, but their occurrence is undoubtedly favored by mechanical and traumatic factors such as irritation of the stoma by poorly digested food during gastric contractions, the presence of silk sutures, trauma from stretching and pulling on the stoma by gastric and intestinal motility, nervous factors, modification of the blood supply to the stoma, a constitutional predisposition, foci of infection, and hyperacidity

Like the original lesion, the postoperative ulcer is manifested by pain occurring after eating and re lieved by the ingestion of food. The pain usually occurs in the left side of the abdomen and may or may not radiate posteriorly or downward. Hæmor

rhage is a frequent complication

The diagnosis is based upon the findings of careful roentgenological study. No one technique is applicable to all cases. Proper preparation of the patient is important. The stomach must be empty in order that the mucosal folds may be visualized. The stoma is localized by following the convergence of the folds. The examination should be begun with a small aperture under the fluoroscope. With adequate compression the nuche as well as the form and size of the anastomosis and motor function may be shown. The best results are obtained with the patient erect because this position usually eliminates false niches due to mucosal folds.

The author reports the roentgen findings in seventeen cases of postoperative duodenal lesions. Two of the lesions were originally gastric. Eleven were ultimately confirmed by surgery.

SAMUEL J FOGELSON M D

Emery, E. S., Jr., and Monroe, R. T. Peptic Ulcer Nature and Treatment Based on a Study of 1,435 Cases Arch Int. Med., 1935, 55 271

This report, which is based on nearly 1,500 cases of peptic ulcer, is largely an evaluation of the results obtained after medical and surgical therap. The conclusions drawn will afford valuable guidance to both the internist and the surgeon in the treatment of gastroduodenal ulcerative disease. Evidence presented shows that ulcer is a chronic disease, our present methods of treatment are merely palliative, and cure is probably rare. The aim of treatment should be not only cure of the ulcer but also prevention of the appearance of other ulcers which are called "relapses"

The most important etiological factors in recurrence seem to be fatigue, eniotions, and infection While peptic ulcer rarely causes death or shortens life, it may be responsible for loss of time from work, it limits the range of the patient's activity, and it necessitates a change in his mode of living and regu-

lation of his diet

Of the patients whose cases are reviewed, approxsmately 81 per cent were definitely benefited by treatment, but of this Si per cent only 32 per cent could be classified as cured A table which compares the results of medical treatment with those of surgical treatment in 1,258 cases shows that surgical treatment was followed by continuous relief in a higher percentage of cases, but surgical failures were more than double medical failures and operation yielded a distinctly lower proportion of satisfactory results than medical treatment. It shows also that surgical intervention is just as unable to alter the course of peptic ulcer as medical treatment explanation for the unsatisfactory results of surgery and the fact that all medical measures gave better results than surgical procedures seems to be that patients who were operated upon were not afforded, or refused to accept, as much attention to their general health and after-care as those treated medi-None of the operative procedures yielded a high degree of satisfactory results. Simple posterior gastro enterostomy, the most common operation, was almost as effective as posterior gastro enteros tomy supplemented by excision of the ulcer Pyloroplasty was equally effective Distinctly less favorable results followed operations in which division (transection) of the pylorus or removal of the pylorus or some portion of the stomach was done in addition In condemning radical surgery the authors say, "Removal of the antrum was proposed with the idea that the loss of its hormone would decrease the production of hydrochloric acid. Experience has shown this to be a mistake. Since the operation removes the part of the stomach which has an alkaline secretion, it should be abandoned "

To obtain successful results from surgical therapy the operation must be chosen to meet the requirements of the particular case. It is advisable to inform the patient of the nature of his disease. He should be told that although an ulcer does not seriously threaten his and does not tend to progress in severity it may interfere with his comfort and activity from time to time and that while there is no known manne of obtains permanent cure there are madous conservative measures a bich can mal a bim comfort able and able to work efficiently. Most patients are already definitely coardined of the chronicity of their trouble before the physician sees them. When their fram have been confirmed and allayed they are transformed from a restless, disastisfied groups were dering from doctor to doctor to one which realizes the need for daily cars, attention to hydre, and occasional medical investigation

Cases of existing plour are treated in much the same y as those of denderal place although they are more closely emeryland. Such along are or become malignant in only a per cent of the cases. If the case of matric picer under strict hospital medical management does not show healing roentemologically after three weeks immethat sorvery is advisable. A roenteen study abould be made three and

six months later and thereafter at least once a year Hermorrhage is also treated conservatively. In oc ner cent of the reviewed cases the blending stopped scontaneously. It is the task of the physician to provent its recurrence. At present there is no ay of saving the g per cent of patrents who continue to bleed until death supervenes for it is only in this relatively small group that surposal intervention is justified and unfortunately there is no a y of deter mining which patients are going t belong in this group. The theory is prevalent that patients with ulors are less Illiely to blend after surgery than after medical therapy. Accordingly there is a tendency to advocate surgical intervention benever a patient has had severe bleeding. The statistics presented do not lend any support to such a theory. Of so me tients treated medically 19 3 per cent bled after the medical treatment during an average observation period of three and six-tenths years. Of 55 patients treated surgically 7 4 per cent had enother hemor there a thin an versey period of four and eight tenths years Even if correction is made for the difference in the time of observation and allowance is made for a greater tendency t bleed in the surposi cases, I m still clear that surgical intervention does not prevent future hamorrhages any more than does medical treatment

Operation should be done only for definit pur noses, namely to close perforation, to relieve permanent obstruction of more than 40 per cent disclosed by the fluoroscope six hours after a barfam meel and to overcome hemorrhagic tendency It is indicated also when there is reasonable suspection of carcinoms or mahemant degeneration. The operation of choice is that which accomplishes the specific purpose to view and causes minimal interference with the physiological action of the stomach Subsequently the patient should be treated in the same way as patients with eleer who have not been oper

ted upon During the periods of hy persecretion the patient should be treated with particular ours modically operation performed at such time is dis-SANCTE I FORTER ME

College, W. H. The Place of Surfery in the Treet ment of Protic Ulcur Lance att. of sto.

Although the operations devised for peptic uiter are numerous, they all belong to one of the following three groups; (1) local excession of the siner of varying amounts of healthy times and meanwaters of gastro-intestinal continuity: (2) short chreling operations and (a) materials

The value of local exclution of the pierr is doubtful The ulcer hich has been removed is replaced by scar which is smoother than that of a healed oleer but longer Nothing is done by local excision to counteract the cause of niceration, and the deformity at the site of the excision solds the factor of mechanic

cal trasma The calci short-dreating operations are eastroduodencetomy and eastronisacetomy. In both of these operations the ttempt is made to mercome staris and counteract acidity by making an gastomosis between the stomach and small fatestize These procedures do not diminish the secretion of acid, but they mentralization of the acid by allowing the tree entry of all aline fuices into the stomach. Posterior gastro enterestemy is best be cause t is sale and mechanically satisfactory. The resulting stone is large and free from tension and adhesions to heighboring structures. It moves with the contractions of its component parts and the neighboring organs. The operation can be performed

Ith great case by the expenenced surgeon and n capable of giving bulliant results

The claim has been made that the arlow entreduodenal anastomoses are more physiological tista gastroje/unostomy because ( ) the new opening is at or near the pylorus, and ( ) the gastra chyme-passes into part of the intesting which is accustomed to an arld medium. However those advise. ing the first argument agnore the fact that the pylorus is a sphincter acting under reflex control, and so artificial opening, wherever placed, can assume is function. The second argument is unsupported because the randaty with hich food passes through the duodenum and the first few cods of the princip makes it extremely improbable that the reaction can differ in the ru ates furtapylone operations are technically much interior to gustrojepenostomy Hemorrhage and sothing mar their performance the stoma is clumsy fixed, and under tension because of local difficulties and postopersthe leadage is not unknow. As mught be expected, the late results are, on the average, laferler to these of the older and compler form of anastomosis

Castroctomy serves the following four purposes in the treatment of ulcer

It removes the alcer itself hen the lesion is in the storrach or the first part of the doodensm. It overcomes any stasts that may be persent.

It allows for neutralization of the gastric secretrons by the intestinal parce.

4 It reduces acid production in proportion to the amount of acid-secreting surface removed

In a series of postmortem operations at Leeds on the bodies of patients who had undergone gastrolejunostomy for duodenal ulcer from nine months to nineteen years before death, gastrojejunal ulcers were found in 22 out of 30 Their incidence was therefore 73 per cent Of the last eighty-two of the author's cases of duodenal ulcer, gastrojejunal or gastrojejunocolic ulcers occurred in seventeen (21 per cent) A patient with a gastrojejunostomy may be comfortable, but he is never safe. Ogilvie believes that ulceration at or near the stoma will eventually follow gastrojejunostomy performed for duodenal ulcer in at least 20 per cent of cases Eventually another, always difficult, operation is required. It may be one of the most difficult in surgery with an average mortality of 19 per cent Five per cent is assumed as the average mortality of gastrojejunostomy, but if 18 per cent of the survivors develop jejunal ulceration which has an operative mortality of 22 per cent, the total death rate following gastro-enterostomy will eventually be o per cent. As a skilled surgeon will be able to reduce the operative mortality in cases of duodenal ulcer treated by gastrectomy to 5 per cent, the operation of choice which will give the most satisfactory results is therefore the "physiological gastrectomy" SAMUEL J FOGELSON, M D

Vergoz, C, Ricard, E, and Homar, J Contusions and Ruptures of the Small Intestine in Closed Injuries of the Abdomen (Contusions et ruptures de l'intestin grêle au cours des traumatismes fermés de l'abdomen) Rev de chir, Par, 1934, 53 723

The authors review the literature on contusions and ruptures of the small intestine occurring in closed injuries of the abdomen and give the histories of ten cases, four their own and six reported by colleagues They find that such contusions and ruptures occur most often in the first part of the jejunum near the duodenojejunal angle and next most often in the terminal loop of the ileum near the ileocæcal valve The reason for their greater frequency at these sites is that the first part of the jejunum may be easily crushed against the spinal column and the terminal part of the ileum may be crushed against the promontory of the symphysis

Wounds of the intestine occurring in closed abdominal traumata may be simple contusions or ruptures, single or multiple, incomplete or complete They may be accompanied by lesions of the abdominal wall, mesentery, liver, spleen, bladder, pancreas, or kidneys Peritoneal hæmorrhages may result from rupture of the mesentene or mesocolic vascular arches or the omental vessels Such hæmorrhages are very copious Hæmorrhages occurring from the intestine in the absence of a mesenteric injury are

less serious

Contusions of the abdomen do not necessarily require surgical treatment. Mild contusions of the intestine may undergo spontaneous recovery However, even cases of slight injury must be kept under careful observation in order that operation may be performed at the slightest sign of peritonitis When there is any doubt, exploratory operation is indicated Prehepatic tympany and a roentgenogram showing an abnormal subphrenic clear spot are decisive and in association with spontaneous or provoked pain at a given spot are absolute indications for operation

At operation, the entire small intestine should be examined as there may be multiple lesions. If lesions are found they must be exteriorized and the peritoneal cavity dried as completely as possible Simple ecchymoses may be buried by means of a pursestring suture It remains for the surgeon to decide whether the injury is serious enough to threaten secondary perforation. If there is any danger, the lesion may be buried, resected, or covered with a graft of omentum by Dambrin's method. However, the authors believe that Dambrin's method is indicated only in cases of superficial lesions. For cases of total transverse rupture, end-to-end enterorrhaphy seems to be the simplest and most rapid method. If there are multiple lesions the entire injured segment should be resected. Unless operation is performed within the first few hours it is advisable to establish free Mikulicz drainage of the pouch of Douglas The gauze should not be left in contact with sutures as on removal of the sutures fistulæ may be established. Radiating tears of the mesentery without involvement of important vessels may be simply sutured. If tears of the mesentery are not treated they may cause occlusion from herma. When extensive contusions of the mesentery and juxta-intestinal tears or disinsertions are found, the segment of intestine in which vitality is threatened should be resected even if the intestine is intact Mesenteric lesions of the upper part of the intestine are more dangerous than those of the lower part

The mortality of these operations is high and increases with the length of time elapsing after the mjury AUDREY GOSS MORGAN, M D

Ehnmark, E Intestinal Intussusception at Cæcal Tumors Acta chirurg Scand, 1935, 76 147

In the literature are described at least 132 cases of cæcal tumor with intestinal intussusception. The author discusses particularly 34 which have been reported since 1912 and 7 from the Surgical Chinic of the University of Upsala He describes the symptoms and the clinical variations of intussusception caused by cæcal tumors, and discusses the diagnosis, especially the roentgen diagnosis

Since, of 10 cæcal cancers treated in the Upsala Chnic, 4 were certainly, and 1 was probably, assocated with intussusception, the author believes it justifiable to assume that intussusception is fairly

common in this condition.

In conclusion he emphasizes the importance of examining cases of cæcal tumor with regard to intussusception, especially by roentgen examination. He states that, if possible, the roentgen examination

should be made during an attack of pain because to other times the intrasacception is easily reduced and may therefore escape diagnoss.

Weifer J A. J juncetonsy with J jumal Allmantation. And Swy Que, or ros.

Up to within the last few years many attempts at icianal alimentation were made, but most of them falled because of the use of an incorrect nabulum and a lack of understanding of gastro-intestinal physiology The records show that as early as alle lemmal alimentation was recommended and used for the treatment of carcinoms of the ovlorus and attention was railed to the importance of placing the stomach and duodenum at rest in the presence of ulceration. In 187 Hearing made some interesting studies of the acid curve with jejunal alimentation in the presence of picer. He found that when properly selected that was used there was marked decrease in the free and combaned and and in many instances the total restric secretion was decreased In an elaborate experimental investigation carried out in as Scott and Ivy proved that a wellselected duet introduced for the sciences would maintain an animal in a proper natritional state for many months and prolong the latent period during which no acid was secreted. During period of nine hours of continuous jepunal feeding no hunger con-tractions occurred. The guartic phase of guartic se-cretion was aliminated by withholding everything by mouth. The pabulum consisted of water 3,000 cm cane sugar 50 gm poptone (dried) on gm, wheat flour 300 gm whole milk, ,000 cm and creem (20 per cmt ist) ,000 cm with sufficient salt to maintain the chloride balance and such vita mine as are contained in cod-liver cal vicatorol. yeast, and catrons forces. The observations made in these experiments suggested that in the kuman being excessive acid secretion might be reduced by ade-

at rest by continuous squaral feeding.
In the procedure followed by the author. We teel
squarestomy is used, the square these removes as a least it in state the mean of the square, and the
put is fixed to the shooman! will. The cuthestr is
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formion of the latter is made on the left skill.

mute leignal alimentation and the atomach placed

Considerable cars is necessary in jequal feeding the pathulm must be introduced slowly! I smallet the empty lag of the stomach. In the surther' case in given with a specially designed electrically driven pump which will deliver any quantity of the delivery pump with the surface of the stomach of the surface of the surfa

depending upon the amount, the time after parnoalmay and the response of the patient to the lead ing. The dark presents a similarized too rapidly, and be followed to greater and durriers. In some statements the fat content of the too high, caseing lowed breathing or the part of the too high, caseing lowed breathing or the part of the case of the theat duries to telesmon of the particular patients has dead duries the oldermon of the particular patients have theel duries the oldermon of the particular patients have been stabilized. With ears and patiency it is similar to provide a vell-balanced daily due which "B sepply from 1,000 to 3,500 calorics and retained to prevent vell and the second of the patients of the particular patients."

The indications for jejunal alimentation are.

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case,

3 Cardinoma of the stomach. The distressing
symptoms, pain, hanger and thirst due to the cartmona, case be controlled better by jegunal absorbation than by any other means. The author dies

y Carcinoms of the lower end of the enophagua J functiony is preferable to gastrostony in this conduction because it reber as the pain facilitat to be involvement of the cardia which is present in many cases. A case is remoting

cases. A case is reported.

A Doubleast clear without anternations assumed a sunability of the case of the property of the case of the provident wastended to the case of the president wastended to the case of the president wastended to the case of the president wastended to the case of the case of the case of the 
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report is cited.

5. Gastroj junal uler: Because it the cruisel conductor of the majority of patients it space reputal sker and the ordanization of the pater reputal sker and the ordanization, plural students attent in recommended it improve the patient antificional skir and allow the acute an approas to schedule so that operation may be carried out at time when it is more likely to be successful.

6. Complementary jeruhostosy J justi shuorable is using in sultane is usuated () to control debydration and starvation and sascetated chemical charges (are gasto extressiony followed by prisuatest wouting (a case is cited) (b) t provide the poorly sourced patient with instenance and favor beaking it de anastronois after gastor reaction and operation of the control of the cont

7 Limitis plastica

5 Excessive trauma to the stomach

9 Pernicious vomiting after gastro-enterostomy

to I stragistric or duodenal lesions issociated with marked nutritional disturbances and excessive comiting, pancreatitis, cases of long continued drainage of the gall bladder or common duct with nutritional disturbances, and the permeous comiting of pregnancy

ti Selected cases of gastrie and duoden il hamor

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## Gabrici, W. B., and Lloyd-Divies, O. V. Colostomy Br 1 J. Surf., 1955 22, 520

As a palliative operation in mahgin int disease of the rectum colostomy is at value chiefly because it relieves obstruction and to a varying degree important and troublesome symptomy such as diar rhaa, tenesmus, pain, bleeding, and discharge

In some cases, such is those with obstruction and a rectovagnal, rectovesteal, or vesteocolic tistula, the relief is marked. In most cases the operation is followed for a varying number of months by definite improvement in the seneral as well as the local condition. This is to be accounted for by the patient's ability to take a more normal diet proper bowel evacuations, relief of the rectal trift ibility and more regular sleep. Colostomy is therefore a valuable operation for the relief of inoperable rectal carefuloria.

The benefits conferred by colostomy are most appreciable if the operation is done at 1 stage when the patient is still capable of general improvement and has time and courage to become adapted to 3 colostomy life. If it is not done until a late stage of the disease the operative risks are greatly increased as the patient is often in a poor state of health, undernourished dehydrated and worn out by loss of sleep from diarrhea, tenesinus, and pain. The operative mortality in advanced cases is considerably greater than that in cases in which excision of the rectum is either planned or carried out is a second stage operation.

The causes of 79 operative deaths in 970 cases of colostomy studied were as follows

Cause of death	Cins
Heart failure	11
Pulmonary complications	11
Pulmonary embolism	1
Perstonitis	12
Paralytic ileus	0
Mechanical obstruction	ř
Toramia from pre operative obstruction	,
Prolapse of the smill intestine	0
Uræmia	ű
Cacheria	٠,
Miscellaneous conditions	3
- vermissags constituons	,

The following late complications are known to have occurred after colostomy

1 Stenosis. This is the most frequent complication. It is due to the development of a contractioning of fibrous tissue at the junction of the skin and

mucous membrane at the colostonic. The musculature of the abdominal wall plays no part in its occurrence

2 Ventral herma. This occurred in a small number of cases, not exceeding to per cent of the total number, and was slightly more frequent after left iliae colostonies than colostonies in which the bowel was brought out through the left rectus

3 Spur retraction. This is an important complication which results in complete disfunction of the colostomy with the passage of faces into the distal colon and is often found in conjunction with stenosis, subcutaneous bulging, and ventral herma.

4 Prolapse This is a rare complication Like a rectal prolapse, a colostomy prolapse may be complete (entire thickness of the colon) or incomplete (niucous membrane only). Usually it occurs from the upper opening, occasionally from the lower opening, and sometimes from both

5 listula into the colon. This is probably due to the ligation of appendices emploice containing

The authors describe an operative technique for colostonia an important feature of which is immediate opening of the bowel. It is applicable both to cases with and cases without obstruction. It has

considerably reduced the mortality and will probably prevent many of the late complications

STATE KARN, W.D.

### Stone, C. S., Jr.—Acute Appendicitis in Children lech Surg., 1935, 30-340

Stone reviews 258 cases of reute appendicitis in children in which the diagnosis was proved by operation. The incidence of the condition reached a peak at the twelfth year of age and remained high during the following two years. The indigns of this and similar studies indicate that there is a gridual increase in the frequency of acute appendicitis from infancy to adult life rather than a sharp increase at any one age period.

Acute appendicitis was found to be most frequent in children in the months of June, July, and August As gastro intestinal disturbances are common at that time of the year, these conditions may be of importance in the etiology of the condition

I definite history of one or more previous attacks of acute appendicuts was given in 64 of the cases

The general chincal picture of the disease was found to be similar in children to that in adults. The distribution of cases in the 3 groups—Group 1, cases of acute appendicitis not ruptured, Group 2, cases of acute ruptured appendicitis, with localized peritonitis or definite abscess formation, and Group 3, cases of ruptured acute appendicitis with no localization of the peritonitis—was essentially the same in the 2 periods of life. The mortality in Groups 1 and 2 was the same in cases of children and adults, but in Group 3 the mortality in the cases of children was 34 per cent whereas the mortality in the cases of adults was 16 per cent. This high figure in cases of Group 3 in children accounts largely for the differ-

ence in the total mortality or or per cent is children

and an our cent la adulta

The bigh mortality in children is due t the lower resistance of the young to peritoncel involvement. It is obvious that reduction of the mortality can be accomplished best by early discous and removal of the normalis before involvement of the north topean. Savera Kury M.D.

Drison, E. M., and Zollinter, R.; Acute Tubercu loss Appendicitis. Ass. Ser. 1011 6 140

Of Citan anoundines examined at the Poter Book Brisham Hospital, Boston, in the most twenty years. inberculous appendicitis was found in 16 to a per cent). Of the patients with tuberculous appendi citis, o were females and 11 were between the sers of filteen and thirty wars. In to the condition are of the ulcerative type. Perfecation of tuberrologe ulcer may be the came of an enceather) aborne In a of the cases reviewed the tuberculous as of the hyperplantic type. This type of lesion is most reachly diagnosed at operation, often by macroscopic examination, and often the best possibility for precremmation, and oners the best possitantly for pro-operative diagnosis. The timor is fragmently palpa-ble abdominally. In some cases it may be relatated at operation for malignancy. The consensus of opinion is against primary infections of the appendix by way of the blood stream. As the cacum is often involved, the appendix is renerally believed to become lafected by direct extension and by infected contents.

The alcorative or common type of subcreatous appendictle availty above no densite avantomatic pattern or distinguishing features to differentiate it from the ardinary acute or recurrent appendicities In o of the 12 reviewed cases of the ulcerative type the diagnosis of teberculous appendicula was not considered before operation. The cases to which a correct pre-operative disenous was mario to recorrect pre-operative magnous was mano to retuberculous of the appendix the condition was not diagnosed pre-operatively and no other tuberculous focus was at created by pay sical examination. Therefore he s of the 6 cases the ppendiced ledon lound at operation was the first evidence of tuberculook discovered.

I semmerizing the authors emphasize that the pre-operative diagnosis of tuberculosis of the Dpendix scena to depend on the properts of at least a of the following factors (a) longer duration of the symptoms than in the a craps case of acute poendichts without a fulminating course, ( ) poor natrition and lost of weight, (3) known tuberculosis, (4) diarrhors, (5) failure of the comperature to rue above 100 s degrees F (6) absence of vomiting and (2) the presence of a tumor in the right lower quadrant of the abdomen \one of these is of any or nificance alone, but the presentation of several of them should suggest tuberculous appendicates

Drainage was employed to five of the mateen cases Sinuses developed in the of the five cases to luch relmary drainage was employed and in one case )

which drains as was not established at mostly The prognosis was poor in both types of the cont. sloss but perhaps better in the apperplastic than is the nicerative to ne. Of the eleven patients with the ulerrative type, only one remained well. The follow n information obtained in fit cases operated those recently as of fittle value as the length of time wars the operation was too short to allow accurate comchasions reserving the end-results

Labor F H., and Cattell, R. R.: Two-State Aband the state of the Retting and Rectories old for Carcinoma, Am J Surg and ST 101.

Lahay and Cattell ha e devised a two-stars abdominopertural resection of the verture which has the advantages of the one stars shoomingnessed resertion described by Miles and therefore may be a a ider application than the latter especially in the cases of patients who are poor make. The technique la es follows

PERSON STATE

A left rectus includes subtribut the fibers of the rec A left rectus success spatistic the open of the richle and outer thirth of the nuncle is made. The deep ep-gastric concle are ligated and divided in the lower angle of the facision. The peritoneum is opened and thorough abdominal evolutation is carned out.

The reaunciant algonoidal loor is then draw toward the median line and the parietal perioneurs divided a resemblately 5 cm from the edge of the bowel from a point birth on the signacid down to a point directly over the that wents Acat, a point on the element is selected for later division carried out in such as to leave an adequate amount of bowd arenwally to form the permanent rejectorsy and sufficient box et distal to the point to permit its delivery well met the median line after the division perstoners over the mescatery of the straight is then divided on its medial aspect down to the potion of the superior hemorrhoidal essels, and the same di isloo is carried out on the lateral surface If hen the mesentery loop is held up the emels stand out clearly and can be secured it is small policies of mesentery. It is any accessary to located, the suptior ha morrhoidal exacts by palpation. These elsels are felt over the meral promoutory shightly ! the left of the median hint Particular attention is paid to the course of the upper branches of the left colle arters which provide the decalation to the progress) segment

A abort stab incision is next made suprapulacely in the multime. The peratuserum is opened at a point in above the bladder. Through this incision a maht engled or long curved clamp is mirodword and polled to the board dutally at a peaks selected for division. A second straight clamp is placed on the pruzimal arguent through the original mount and the be el divided with the cautery. The distal segment is brought out suprapublically without contact with the persioneum and the skin is implicated hosely about 1 This completes the unplantation

The wound is walled off with gauze pads and the lumbar gutter is closed by interrupted or continuous sutures approximating the parietal peritoneum in a direction vertical to the bowel segment The free edge of the omentum is drawn down and anchored to the medial mesocolic peritoneum at a point directly above the superior hamorrhoidal vessels The right side of the free edge of the omentum is approximated along the cut edge of the distal loop up to the peritoneum and is attached to the peritoneum under the stab wound In a similar fashion the left side of the free edge of the omentum is attached to the mesentery of the proximal loop up to a point where it will be withdrawn from the abdominal wound Next, the primary incision is closed in layers without drainage. The permanent colostomy is brought out near the middle of the incision No sutures anchor the bowel wall to the abdominal wound It is quite essential for an inch or more of the bowel forming the permanent colostomy to project beyond the skin surface

The clamp is removed from the permanent colostomy after forty-eight hours After five days the lower clamp becomes detached or is removed and the distal segment of bowel is irrigated two or three times daily until the second stage of the operation is performed.

The average length of time between the stages is fifteen days. SECOND STAGE

The permanent colostomy is walled off with adhe-The implanted loop is then closed by interrupted and continuous sutures and the abdomen opened just above the umbilicus in the midline, well above the implanted loop The skin incision is continued downward to encircle the implanted loop A piece of rubber tissue is tied around the implanted loop to prevent contamination After the omentum is freed from the distal segment the pelvis is exposed adequately The superior hæmorrhoidal vessels are ligated at the pelvic brim The ureters are exposed and identified. The hollow of the sacrum is cleaned out by blunt dissection down to the tip of the coccyv The entire distal segment of bowel is placed in the pelvis in the presacral space. The pelvic pertitoneum is then closed off. The abdominal incision is closed without drainage by means of retention su tures A small suprapubic drain may be inserted down to the anterior peritoneum The perineal part of the operation is carried out with the patient in a modified Sims position. The anus is sutured shut and excised toward the coccyx Following division of the subcutaneous tissues, the coccyx is removed and the middle sacral artery secured The distal bowel segment is delivered with the perineal dissection carried far laterally so as to sever the levator am muscles. The large pelvic cavity is then inspected for bleeding and drainage is established by one cigarette drain through the middle of the closed incision A blood transfusion of 500 c.cm is given routinely by the citrate method

JOHN W NUZUM, M D

Rankin, F W Graded Perineo-Abdominal Resection of the Rectum and Rectosigmold Surg , 1935, 27 214

Graded operations for cancer of the rectum are usually done for the following reasons (1) inability of the patient to stand a formidable radical resection in one stage, (2) inadequate decompression as shown by cedema and thickening of the bowel wall with infiltration in the mesentery, and (3) borderline opera-

Graded maneuvers are usually carried out in the following two stages (1) exploration and decompression by execostomy or the formation of a permanent single barreled colostomy, and (2) removal of the segment of bowel containing the growth together

with the gland-bearing tissues

Most satisfactory for exploration is a low midline incision Muscle splitting incisions have the disadvantage of favoring prolapse and hermation of the colon When colostomy is done at the initial maneuver in the author's cases it is accomplished through a small stab wound in the left groin Rankin is convinced that the low midline incision is more desirable for both exploration and the first stage of the graded maneuver He explores the liver first, then the pancreas and retro-aortic glands, and finally the primary The presence of metastases in the glands can often be determined with certainty only by microscopic examination One of the most important factors to be considered in estimating operability is the fixation of immobility of the growth Any growth not rigidly immobile should be extirpated if liver metastases are absent If the growth appears to be removable and a graded operation seems desirable, either a cæcostomy or a single barreled colostomy may be done If the bowel is cedematous and thickened, the mesentery is infiltrated, and there is evidence of obstruction, decompression with a No 28 Pezzer catheter is the procedure of choice. The catheter should be large enough to relieve the bowel of gas and fluid contents Later, irrigations may be carried out through the same catheter Adequate decompression depends chiefly on evacuation of the gas and fluid contents. In the cases of patients with acute obstruction at the time of examination the establishment of a blind excostomy is the ideal procedure. In the technique of colostomy used by the author the sigmoid is pulled well out through the low midline incision and at a convenient spot in the mesentery the blood vessels are divided close to the bowel The looping arches of the vascular supply to the sigmoid are carefully preserved. The bowel is divided between two Payr clamps, the upper one of which has been thrust through a stab wound in the groin The second clamp is applied in the opposite direction and the bowel cut across with a cautery The proximal end is drawn out and the clamp left on to obstruct the bowel completely for from twentyfour to forty eight hours The distal loop is inverted and dropped back into the pelvis

After the establishment of the cæcostomy or singlebarreled colostomy a period of from two to six weeks

is desirable before the second stage of the operation for rehabilitation of the patient. In the author's cases rectal irrigations are given from shout the tenth day until twenty-lour hours before the second steen. The resection constituting the second stage of the operation is a perman-shdominal type of procadure berun with the nationt face down on the table as for a posterior type of resection with the bine elevaled and the mu closed with representing arture. The arms being encircled by the includes a bich tele and extend up to about the paiddle of the correr, an extensive dissection of the pelvis up to the pentages! reflection is accomplished. It is important to clear out the hollow of the secrem and the behingertal form and respect a large portion of the levator and This permits also removal of the glandmperio bearing themes around the prostate and seminal westcles in the male and the posterior variant well and cervix in the female. The desection follows does ticulation of the coccyx from the sacrum. The lateral the peritoneum without opening of the latter. At this point the rectum is encused in rubber glove. the slove is tied tightly amound the cuff and reached back into the bollow of the sacrum, and the posterior wound is closed This stage of the operation is car ned out under transacral block anethods. On ta completion the patient is placed on his back and the second part of the operation is carried out through a low midhoe incisson under eth riese samsthesis operation a done entirely a thin the pelvis, which is tucked off a th games. After the turned in loss of bound has been located the peritoneum over the inferror mesesteric vessels is inclued and both uniters are identified. The inferior meanteric vesicle are doubly ligated close to their origin. The bladder is separated w y from the rectum and the entire ser ment of bound bifted out through the abdomen. The relyic floor is restored with the remaining peritoneum. The abdominal wound is then closed and drainage of the pelvis is established by couning the posterior acoust and inserting quantity of gauss encesari an celed sala

At the end of sixty hours the drains are removed from the posterior wound and daily irrigations of normal saline solution are begun. At the end of tax days the patient is allowed. Sets bath. The large cavity heals reachly by granulation. During the period of decompression the pre operative. diministration of an intrapentoneal vaccine of mixed streptorocci and colon bacilli provos its value is alding the patient t withstand potential pentoneal contami nation Decompression is the most important funda mental. Also of great importance is the use of blood (rengiusos

About to per cent of all patients are operable in the sense that there is good chance for clinical cure The ver ge mortality of the operation per formed by an experienced surgous is about cent. The operation has been performed by the thor is eighty man cases a th eight doubts.

JOHN W YOURS, M D

### LIVER, GALL BLADDER, PARCETAR AND SDIPE

Debuch, L. A Contribution on the Treatment of Circhosis of the Liver by the Talma Operation (Ein Belting ser Beknoffung der Leberdriches mi er Tabusachen Oneration) Mett. A Comment A Med. s. Cht 014, 41 466.

The author made choical study of marcher of came of circhods I the liver in which the Talme operation had been performed (transplantation of the omentum into an extraorningeal poriet to the recens about a with fixation to the muscle and mode. for factal layer). On the hasis of the clinical comme these cases could be divided into three groups.

In those of the first group specimial early opera tion was reviermed. In two cases hemorrhage from Characteristics was the first elem of home Masses In two others a previous general infection ambined the relatively short duration of the disease. The effect of the operation in these four cases was no good that for from three to ten years later the Patients felt well and ere able to work again t some extent.

In the second group ere four cases lack were uninfluenced by the operation. These ere cases of advanced circhosis. The development of anasteadvanced circhosis. The development of anaste-mones was too let. In such cases it is advantale to text the function of the liver to determine the condution of the downed organ.

In the third group were cases in which the results ero uniavorable. In those in bich death occurred within from eleven to sixteen days after the opera tion the chief ymptoms were due to chruistery usunficiency. Because of the severe unjury caused by the carabonia of the liver intraperitoncal operations are poorly tolerated

The Talma operation is justified by its favorable results and the theory that the chief symptom which in many cases is responsible for the uniavor able outcome may be alleviated by creating new and heneficial anastomotic relations. Of most importance in establishing the undications is knowledge of the duration of the disease. The operation should not be performed post a patient, ith circulatory impairment and severe liver insufficiency

(Z Enc.) LEO M ZIMMERICAN, M.D.

Dakle, M. Rupture of the Normal Spices Without Luown Cause, Spontaneous Rupture! (Reptur was normaler Mais ohne behannte Urmche, Spontanreptur?) Acis charary Scand 934, 73 519

R pture of the spless may occur hen the organ is the site of pathological changes, as in making, typhoid fever and blood diseases. The possibility of spontaneous suprare has been disputed. The thor reports case of apparently apost ancous rep-

ture The patient was boy thirteen years of age. He was admitted t the hospital because of pale in the left side, but the subsequent course of the condition as most suggestive of acute ppendictus. At operation performed tweaty t hours after the onset of the pain the abdomen was found alled the

nortal refe

as infiltration of small cells—mostly lymphocytes mixed with plasma cells and occasionsly preparations of the plasma cells and occasionsly preparations of the label at a record the portal win and extends finto the labels of the laver where it is any appear in the form of small becauses. At the same time there is a prohiberation of connective tissue elements which form electrical around the vessels and the label dept. The degree of shrouds depend on the severity of the infections in many vary from only slight across of connective tissue to true reductions with changer is the sormal architecture of the labels and damage to the fiver only all the state of the labels and damage to the fiver only all the state of the labels and shanger. The content with accordant dependently changes.

Schildt, E. An Uncassal Form of Retroperturess.

Hernia-Hernia Hesentarion Petersiali Destra,
Brosalcia (Ucher una uncervolaticia, Form on
Hernia retroportuocals—Hernia mesantenzo pa
netalia dentra, Brosacke) Lide chirary Schol
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advent of tone or bacterial products through the

Ergran T Lour WD

The most common of the so-called internal hersis are those with an opening abouting a topographical retailscaship to the douednosel-jumal factors and extending beneath the mesocolon descendens or ascendens. Of the left-ided and more common form, about 1 so cases, said of the right-ided and less common form, about 2 so cases, said of the right-ided and less common form, about 2 so cases, said of the right-ided and less common form, about 2 so cases, said of the right-ided and less common form, about 2 so cases, said of the right-ided and less common form, about 2 so cases, said of the right-ided and less common form, about 2 so cases, and of the right-ided and less common form, about 2 so cases, and of the right-ided and less common form, and a so case a so case a so can be required.

The number reports case of hersis on the right side of a man aged trenty-side, years who has been on personal symptoms before the occurrence of an acut tack of ablocational pain and resulting. The chief tacks of ablocational pain and resulting. The chief pictures was that of acute diffuse periforate. As a constitution, the result intention was found tysized around for the result intention was found tysized around for the result intention and the thirty was been also been according to the chief of the chief of the hersis of conding a way followed by recovery

In the thor's opinion this condition is best designated by the term suggested by Brocsicks,

"berula mesenterico-paraetalia destra
The pathogenesis of this form of berma is of
interest. Although decaive proofs may perhaps be
lacking there are many factors invoring the theory
that such harmin are concential malformations.

The size of the hersits varies considerably. The contents consist reclusively of small listerities. In the majority of cases all, or practically all, of the small listestime is found in the sac. The hersit are round or oval. They are generally situated in the right side of the abelones, but may be ay mentically developed in the abdomain cavity. Their relation to the occum and according color waters. It is common to find these parts of the intention displaced moverage and to the left.

The hermal opening warres in width and is open to the left. There are no or only single adhesions in the hermia. In some cases, as the result of malformation of the doodsnum or the upper part of the journess, only as effected interface of is formed. This bernis is 6 times more consoon in nates that in founder. Clinical symptoms occur in at least 30 per cost of the case. In low to see section statch of less occur without a similar seed that the consocration of the consocratic of the consocration of the consocrat

In 3 cases reviewed by the thor the came of the scute flour was not stated in the records. In other cases there was obvious of the intestine in the hernial sac, straingulation in or near the hernial open flour, or produces of incasting along through the hernial

goeding or the bernish sec

The diagnosis mently made is "time of unknown came. In the diagnosis mently made is "time of unknown came. In the diagnosis the property of the horsts. Rocatges examination may lead to an exact came discount of the horsts.

In the majority of cases the treatment commute in thickwal of the intestine from the berne and channe of the bernial opening.

Of patients operated apon, a recovered.

Gamdolin, Y : Cryptopenetic Perinsultis Caused by Passumooped and Ralated Bacteria (Deley de durch Perumoka) ket und them evande Bakter les veratschie Lyptopessusche Penisonta). Add charat. Sessé 234, 75 Sopp 34.

This report is based on others seven cases of cryptograetic pentoestis treated in hospitals in Finland in which pneumococci or aguilar bacteria ere found in the armitate.

Although passumaneously peritorina is in general comparate by rare, it is considerably more toernous in children than in adults. Of the case reviewed by the other 7 pper cent is returned to the construction of the control of the co

incidence of the condition was 14 per cent.

In 44 per cent of the cases the disease occurred in
the spring, generally in April. During the other
seasons of the year its frequency.

as about constant.

A requiratory tract affection had been present in tenty four tames, as abdominal affection in the extorphi and disease with general projects in fi-Pertursus proceed the peritorials fairly often Insense cases a chronic disease such as tuberculous perturnatis, heart disease, or gastne sider was found immediate productual ayroptoms occurred in only a few cases. As much the peritorials developed and

denly

In the majority of the cases the general health was poor, the axillary temperature in the beginning somewhat above 38 degrees C on the average, the rectal temperature over 39 degrees C, and the pulse from 120 to 130 per minute. In 70 per cent of the cases the difference between the rectal and axillary temperature was more than 05 degree. Chills were frequent. The complexion was generally pale, hut sometimes highly ilushed. Occasionally, herpes labialis occurred. In half of the number of determinations the leucocytes were found only slightly increased or normal. The highest count was 23,000.

Cultures of the blood were positive for pneumococci once and negative four times Bacteria resembling pneumococci were sometimes found in the vagina, but no true vulvitis was observed. Alhuminuria occurred occasionally, but usually was

slight

The earliest and most constant symptom was sharp abdominal pain. This was absent in only one case. Vomiting occurred in practically all of the cases. In some cases spontaneous diarrhoa was absent and in others it did not occur until after from two to fifteen days. Its duration then usually varied from five to ten days. It was absent in 30 per cent of the cases.

Abdominal distention and tenderness were usually fairly pronounced. In 42 per cent of the cases abdominal distention was quite marked. In 30 per cent the abdominal symptoms were more severe on the right side than on the left side. Meteoristic distention of the abdomen was usually present from

the onset

Complications elsewhere in the hody developed fairly often during the course of the disease. Pul monary complications occurred in at least 33 per cent of the cases. Pneumonia occurred in sixteen cases, pleurisy in three, and bronchitis in seven. In one case pneumonia developed before, and in twelve cases after, the peritonitis. In three cases the time of its development was uncertain. There were four or five cases of nephritis and two or three of pyelitis. A septic type of disease occurred in several cases, in one case it began with arthritis.

In eighty-six cases the diagnosis was based on the findings at operation, in nine, on the findings at autopsy, and in two, on the findings of puncture Abdominal puncture was done four times for abscess

and four times for diffuse peritoritis

In eighty cases the peritoritis was diffuse, the intestines were diffusely injected and generally covered by fibrinous membranes. The exudate consisted chiefly of fibrin. Cases with little or no exudate were exceptional. The exudate varied in its consistency. It was more often thin than thick, and sometimes it was obviously mucous. It was greenish yellow with sometimes a brownish-gray tint. Malodorous pus was never found. The quantity and consistency of the exudate did not seem to depend upon the time of operation.

In fifteen cases an encysted abscess was found. In the majority it was in the umbilical region, but in

some cases it occurred in another part of the abdominal cavity. With two exceptions, diffuse exudate was found only during the first ten days Encapsulation occurred after the sixth day

In favorable cases the fever decreased after the operation. In fatal cases a considerable pre-agonal increase in the temperature (up to 42 I degrees C,

rectal) was common

Spontaneous perforation through the umbilicus occurred in three cases Secondary abscesses were formed in the abdominal cavity in ten cases. These abscesses were incised. An intestinal fistula developed in five cases. In seven cases a Witzel enterostomy was done hecause of intestinal paralysis. In one case delimitation of the exudate was still incomplete on the twenty-seventh day of the illness.

The mortality in the total number of cases was 58 per cent, in the cases of children, 55 per cent, and in the cases of adults, 67 per cent. In the diffuse stage the total mortality was 55 per cent. In the cases in which operation was performed during the diffuse stage the total mortality was 62 per cent, the mortality in the cases of children, 60 per cent, and the mortality in the cases of adults, 68 per cent. In the cases in which operation was performed after the diffuse stage or not at all the total mortality was 46 per cent, the mortality in the cases of children, 43 per cent, and the mortality in the cases of adults 60 per cent. The mortality was highest from the fifth to the tenth day of the disease

The following signs indicate an unfavorable prognosis a temperature above 40 degrees C, a difference of more than r degree between the rectal and a ullary temperature, a pulse rate above 130 per minute, albuminuma (thirteen deaths in fifteen cases), absence of diarrhœa, the development of intestinal paralysis, and the presence of a large number of hacteria in the exudate. In the cases reviewed, secondary unilateral pneumonia did not seem to impair the prognosis to any considerable extent.

Forty one patients were discharged as convalescents Of these, three died later (two evidently from sequelæ of the peritomus), two had various disturbances, and twenty-two recovered completely Fourteen patients could not be traced. According to the findings of the final follow-up, 63 per cent of the patients died, 34 per cent were in good health, and 3 per cent were in poor health

The author draws the following conclusions

r Cryptogenetic pneumococcal peritonitis is most common in girls up to the age of ten years

2 It is always, or nearly always, diffuse in the beginning Encapsulation usually occurs from the seventh to the tenth day, but sometimes not until considerably later. One or several abscesses of varying size then develop, most frequently in the umbiheal region. Spontaneous healing may occur

3 To judge the results of early operation it is necessary to compare the mortality in cases operated upon during the diffuse stage with the mortality in cases not operated upon or operated upon later Erroneous conclusions are drawn if only cases in hich the condition was diffuse or encapsulated to the time of operation are compared

4. Although the difference between the results of early operation and conservativi treatment was found the considerably less than had been expect of, it is indicated it justify repretant treatment when the diagnoss appears reliable. This conclusion seems safe it least so far as children are concerned. In the case of adults the more numbers of the contract of the contract of the contract of the lightest doubt regarding the diagnosis. The time of later operation should be decided on the basis of the findings in the individual con-

5. A diagnosis based on the clinical symptoms is often possible but seldom entirely reliable. It is often impossible to exclude streptococcal perftoofits dislically. It is harardous to dra conclusion from the heater is in the raginal accretion. I doubtful cases, abdominal paracromisis may be done. 6. The vast majority of the patients. In recover from poemioneral peritodists remain completely free from symptoms, but convalencemes may require many mention.

7 N definite conclusions can be dre. as: the rost by which the infection occurs. Its occurrence by y of the blood stream or intestines seems more probable. Presumonia: posterally seldom play part in the pathoguessis of the condition as at unaulty develope later than the peritonial. The pentioneum of young girls seems to be expectally liable to penomerocum safety.

Larm News Har M.D.

### GYNECOLOGY

### UTERUS

Morgan, T N Studies on the Movements of the Uterus II The Action of Extract of the Corpus Luteum on the Uterus of the Unanæsthetized Rabbit III The Action of Gonadotropic Extracts on the Movements of the Uterus of the Unanæsthetized Rabbit J Obst & Gynac Brit Emp., 1935, 42 79, 84

In the experiments reported by Morgan the effect of corpus luteum extract on the movements of the uterus of the unanæsthetized rabbit was correlated with the change in the structure of the uterus. The observations were carried out by making a uterine fistula of one horn of the uterus and treating the rabbit with the extract after its recovery from the

operation

In the first series of experiments sexually imma ture rabbits were used. After treatment with estrin until the endometrium showed typical estrous development, rather large doses of "prolution," a corpus luteum extract, were administered daily. After forty eight hours, the activity of the uterus showed a marked diminution, and at the end of three days the uterus was as quiescent as in pseudopregnancy and the endometrium exhibited the characteristics of pseudo-pregnancy. The uterus showed also an increase in size during the treatment with corpus luteum extract. When the injections were stopped the uterus began to show signs of activity after about three days.

The same observations were then made on sexually mature does, first on those in which the ovaries were removed and then on those with intact ovaries. In the former group the response was the same as in the sexually immature group, but in the latter it was

quite variable

From these observations the author concludes that the follicular hormone and the hormone from the corpus luteum exercise respectively augmentor and inhibitor effects on the motility of the uterine muscle, and that the degree of motility depends on the relative concentration of these hormones in the blood

HEVRY S ACKEN, JR M D

Davis, M. E., Adair F. L., Rogers, G., Kharasch, M. S., and Legault, R. R. A. New Active Principle in Ergot and Its Effects on Uterine Motility Am J. Obst. & Gynce., 1935, 29 155

Experimental evidence is presented to show that not all of the desirable physiological activity of ergot is due to its alkaloids. From the non alkaloids fraction, which has been found to have a marked oxytocic activity on the human postpartum uterus, there has been isolated a new principle which is active in doses of 3 mgm when administered orally. This new principle does not give the usual precipi-

tation reactions with reagents used in the tests for the known alkaloids in ergot. Apparently it contains less than 1 in 100,000 parts of the so-called alkaloids, the smallest relative amount that can be determined by chemical analysis. When the active alkaloids in ergot—ergotamine, ergotoxin, and sensibamine—were given to patients orally in 3-mgm doses, no uterine responses followed within an hour, whereas when the new active principle was administered orally a good characteristic response was noted.

In the cases of over 100 postpartum patients the new active principle was administered and kymographic tracings of uterine activity were made for a period of three or four hours. It was found that the drug evokes a characteristic response within from six to fifteen minutes after its administration. The uterine motility thus initiated persists for three or

four hours

The physiological activity of the new active principle was studied by the usual biological methods. The best medium for biological assay of the new active principle is the human postpartum uterus and the postpartum uterus of the dog

The new principle is palatable, odorless, faintly yellow, and stable. It does not affect the blood pressure or provoke any undesirable reactions

EDWARD L CORNELL, M D

Chambers, H The Histological Classification of Cancers of the Uterine Cervix and the Relation Between the Growth Structure and the Results of Radium Treatment. Am J Cancer, 1935, 23 r

Histological grading as a means of determining the prognosis and estimating the radiosensitivity of malignant tumors is still of uncertain value despite the work of Broders, Martzloff, Healey, Cutler, and others Apart from the need for a large series of cases treated by a uniform method and followed for a sufficiently long period of time, the procedure is complicated by the difficulties encountered in attempting to separate cancer growths into distinct and clearly defined groups and by the fact that no method of grading has as yet been generally regarded as entirely satisfactory

The author's study was undertaken to determine the extent to which the response of malignant tumors to irradiation varies with their histological structure and whether there is evidence to support the theory that tumors of certain histological types (e.g., adenocarcinomata) are insensitive to irradiation Of 678 cases of epidermoid cancer of the cervix treated at the Marie Curie Chini. 228 were discarded as unsuitable. The grading of the remaining 450 cases was based on the extent of differentiation and the degree of cell activity, but the general structure

of the growth was also considered. The enthus grades souamous-cell cancers as follows:

Grade : All troncal accusmous carelnomata of the adult common type. (Incidence 15 per cent.)

Grade a Tumors composed of thin solndle cells resembling those of the head exeminating layer (Incidence, 9 per cent.)
Grade e All tumors in which there is a distinct

tendency to form stratified enathelium. (Incidence. te per cent.) Those tumors are exhibiteded total keratioled, differentiated, transitional, and ana

phastic growths

Grade a Appolestic growths which show no formation of stratified conthellum. (Incidence, a oct cent ) These enmore are embilished anto (a) those arresent in alreolar means with a fale amount of intervening tissue, and (b) those comnosed of solid mass of cells with hitle intervening trisus which is some respects resemble sarroms.

The are incidence of the tumors of the various histological grades is about the same except that there is some indication that the anaplastic growths (tumora of Grade a) are more common in younger

than in older somen

The duration of aventoms seems to have no relation to the clinical stam of the disease (Learne of Nations chasification) In many of the most advanced cases among those eviewed the emptoms had been present for less than to mouthe and in some of the less advanced cases they were f the longest duration

The clinical varieties of local growth, namely nodular infiltrating, ulcerating, crater forming, functions cauchilower endocervical, and prometing were studed. The confidence growths were chicaly

of Grades 3 and 4 b, but every histological type was represented in each clinical variety The irradiation treatment used I the Mane Curso Clinic is a modification of Formell' method In general, the principles of therapy have not been modified since the Clinic was counted in 0.5 Radi in has not been used interactually and supplementary deep \ ray therapy has not been employed The chief object of the treatment has been the direct polication of a does of irradiation large enough t came the mahanant cells t disappear without producing irreparable damage t normal structures It is, in fact, surface treatment t the ptenne cavity and the agnel vanit Is no a has the dosage been influenced or altered by the histological character of the growth. Although this method succeeds in treating carcinoma cells close to the surface, it fails to destroy or seriously after the gro th of cancer calls actuated more deeply or metastases in the paivic glands. Therefore the resolts are dependent pon the charcal stage of the discuss when the treatment is begun and disappear ance of the local growth is of more value in deter mining the effect on the cancer many than is the patient a pitimate condition

The author reviews the results of treatment not only in the 450 cases of squamous cell cancer which were graded, but also in so cases of adepocarringme of the certiff. Of or patients in chairs! Steem t and

(I seems of Various classification) So (So per cent) he a been appearently from of local decreas for t years or locater much the institution of the treatment Of those in chules! Stares a and a. 111 (6) per cent) are locally cared. There is comparathely little difference but see the various hatchcomil ender However the heat results were obtained in races of transitional cancers of Grade 3 in which the lack dence of local cure as 74 per cent, and cues of safehorarchoma, in which the participes of local

CUTO WAS 71 DET CHOL

The author believes that the treatment need at the Marie Carle Clinic will core the great masont, of growths hunted to the cervix (Stage ) present tive of their histological type Il hen the more advanced cases -for example those of Stare tnt considered senserately a difference of not more than a cost cent is found bet een the various hustological i nes so far as local erro or the rumber of three-year survivals is concerned. This is true also when the results in the entire series to conaddered Moreover t is quite evident that deco carrancesata are not lascautive to irraduction.

GEORG H GARRATE M D

#### PETERBAL GENETALIA

Ehwin, T. J. and Lovalley O. S. Radical Railel of Vesicovatinal Fistula. Report of an Usussai Case of A session of the Bladder Through the Fistulous Opening, and Review of Sixty Cases Seen. Claw York Hospital Doring the Part Namety Years. J Link ass, 11 5

The national whose case is reported as a long! who was thirty-fix years of age when she first came norder the authors' observation. She man a history of "bladder trouble" dating from her ouly confine ment thirteen years previously. The had been ones ated prop five times a thout relief of the symptoms The ferrals as complicated by complete everson of the bladder into the variou. The everted bladder The operation described protraded t the valva by the pilons was done in two tages. All devital lead traum was removed, the bladder below factored almost t the edge of the fetule Silver are sutares similar to those used by Sims eighty years ago est th soction used Suprambee counter drainage was established t favor healing of the freshed edges of the fatula by presenting their contamination by contact with the urine. The final result as not complete cure, but the payeat as benefited.

The thors consider encovariant fistules under HAR W FINE MD scal problem

#### MINCHLAMICOUS

truel Cocie and the Puerperal Stat. (Recerbs Kesso, E. sulla colona sel cucio mentrao. Selle state di peer 56 7 4 1 perabiti) Lu un di gina

attributed to a number of in estigators ha boline an antagonistic action toward the effect of adrenalm on the blood pressure, a specific action on the coagulation of the blood, a hormone action stimulating intestinal peristalsis, a hormone action influencing menstruation, and a stimulating action on the uterine muscle initiating uterine contractions during parturition

The author describes an original method for the demonstration of free choline in the circulation studies made in the cases of twenty-six women he was unable to demonstrate any importance of this substance in either menstruation or parturition

GEORGE C FINOLA, M D

Menstruation and Menstrual Dis-Cannon, D J orders J Obst & Gynac Brit Emp, 1935, 42 88

It is regarded as proved that functional utenne bleeding is due to a disturbance of the endocrine balance which maintains the normal menstrual cycle. The author discusses the physiology of menstruation, Frankl's view of the mechanism of bleeding, the relation between cestrus and the menstrual cycle, the physiology of intermenstrual bleeding, the relation between intermenstrual bleeding and the œstrous cycle in lower animals, metropathia hæmorrhagica, epimenorrhoza, and menorrhagia simplex He states that the gynecologist is no longer regarded merely as an operating surgeon With his wider vision, he no longer wastes time on such sterile discussions as the best means of suspending a displaced uterus He is more interested in the nature and cause of the bleedings which suspension of the uterus has so frequently failed to cure

J THORNWELL WITHERSPOON, M D

Moore, C R Hormones in Relation to Reproduction Am J Obst & Gynec , 1935, 29 1

The author discusses (1) the two functional potentialities of the sex glands, (2) the control of the essential accessory reproductive glands, the nonessential characteristics, and, to some extent, the psychic behavior by the homologous sex hormone and the absence of an effect by the heterologous sex hormone, (3) the threshold of effectiveness of hormones, (4) the lack of an effect of gonad hormones on the gonads themselves, (5) the absence in the gonads of the power of self regulation, (6) the modification of hypophyseal activity by the gonad hormones, and (7) the influence of environmental agents on the hormonal activity of the organism

He states that the two functional potentialities of the sex glands are (x) the maturing of germ cells, and (2) the production of internal secretion or hormones In the simpler invertebrate forms of life the gonads appear to have only the germ cellproducing function In the lowest of the vertebrate types as compared with the higher types there is little hormone action Characteristic of all reproductive processes is periodicity Reproduction is not a continuously operating process, it usually occurs once a

Control of the accessory reproductive organs has been demonstrated to rest upon the internal secre-

tions of the specific or homologous sex gland In the lower vertebrates, including the mammals, the hormones probably play an important part in stimulating the mating reaction or sex drive, but in primates, especially in man, their function to that end is to be questioned In Leeping with such added complexities of control, more than one hormone has been elaborated. Though these gonad hormones are quite sex specific, they are in no sense species specific.

With regard to the threshold of effectiveness of hormones the author says that it is too rarely appreciated that hormone storage does not occur in the body and that the response of an organ depends upon a minimal hormone level for a period sufficient

for the occurrence of such a response

The general results of injecting gonad hormones into normal animals are injury to the gonads (from either sex hormone) and stimulation of the homologous but not the heterologous accessories

The gonads function under the remote control of Substances that stimulate the the hypophysis gonads have been derived from several sources, but it is not to be suggested that these substances from different sources are identical.

There is a reciprocal interaction between the gonads and the hypophysis The modification may be expressed as an inhibition or a suppression of hypophyseal activity of such a nature that hypophyseal secretions are delivered into the blood stream in reduced amounts

Certain environmental agents operate in some manner to influence the hormone activity of the In annual breeding forms of animals this added environmental factor operates upon the controlling mechanism that exists in the forms that are not similarly affected by their environment. It is not yet entirely clear whether the environmental factor operates merely to stimulate the activity of the hypophysis or to remove some analyzable inhibi-EDWARD L CORNELL, M D

Wade, N. J., and Dolsy, E. A. The Prolonged Administration of Theelin and Theelol to Male and Female Rats and Its Bearing on Reproduction Endocrinology, 1935, 19 77

A review of the literature revealed that the ultimate effect of the administration of œstrogenic substances on the reproductive behavior of the male and female animal was uncertain because of the relatively short periods of treatment. The authors conducted experiments over an extended period to determine whether male and female rats can develop normal reproductive hormones, theelin and theelol.

Male rats were injected daily after weaming with quantities of theelol varying from 0 65 to 32 0 y and of theelin varying from 1 65 to 6 6 y The injection period ranged from one hundred and thirteen to two hundred and forty-two days Of the 53 rats so treated, 24 successfully impregnated normal females. whereas of 39 control males, 17 sired litters

The body weight of the injected males averaged 87 per cent of the body weight of the control males

of the growth was also considered. The author erades acuamous-cell cancers as follo a

Grade r. All tyrical armamous cardinomata of the dult common type. (Incidence, 5 per cent.) Grade s Tumors composed of thin spindle cells resembling those of the basal perminating layer

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### EXTERNAL CEMITALIA

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### MISCELLANEOUS

Seaso, E. Investigations on Chokes in the Men-atrual Cycle and th Fuerperal Stat (Recruis sulla colora nel ciclo mestrase nelle state di pecr peralità). Rie siel di piace 034, 7 3 5

A number of investigators have timbuted to choline an antagonistic action toward the effect of adrenalin on the blood pressure, a specific action on the coagulation of the blood, a hormone action stimulating intestinal penstalsis, a hormone action influencing menstruation, and a stimulating action on the uterine muscle initiating uterine contractions during parturation

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Moore, C R Hormones in Relation to Reproduction Am J Obst & Gynec , 1935, 29 1

The author discusses (1) the two functional potentialities of the sex glands, (2) the control of the essential accessory reproductive glands, the nonessential characteristics, and, to some extent, the psychic behavior by the homologous sex hormone and the absence of an effect by the heterologous sex hormone, (3) the threshold of effectiveness of hormones, (4) the lack of an effect of gonad hormones on the gonads themselves, (5) the absence in the gonads of the power of self regulation, (6) the modification of hypophyseal activity by the gonad hormones, and (7) the influence of environmental agents on the hormonal activity of the organism

He states that the two functional potentialities of the sex glands are (1) the maturing of germ cells, and (2) the production of internal secretion or hormones In the simpler invertebrate forms of life the gonads appear to have only the germ-cellproducing function In the lowest of the vertebrate types as compared with the higher types there is little hormone action Characteristic of all reproductive processes is periodicity Reproduction is not a con tinuously operating process, it usually occurs once a year

Control of the accessory reproductive organs has been demonstrated to rest upon the internal secre-

tions of the specific or homologous sex gland. In the lower vertebrates, including the mammals, the hormones probably play an important part in stimulating the mating reaction or sex drive, but in primates, especially in man, their function to that end is to be questioned In keeping with such added complexities of control, more than one hormone has been elaborated Though these gonad hormones are quite sex specific, they are in no sense species specific.

With regard to the threshold of effectiveness of hormones the author says that it is too rarely appreciated that hormone storage does not occur in the body and that the response of an organ depends upon a minimal hormone level for a period sufficient

for the occurrence of such a response

The general results of injecting gonad hormones into normal animals are injury to the gonads (from either sex hormone) and stimulation of the homologous but not the heterologous accessories

The gonads function under the remote control of Substances that stimulate the the hypophysis gonads have been derived from several sources, but it is not to be suggested that these substances from

different sources are identical.

There is a reciprocal interaction between the gonads and the hypophysis. The modification may be expressed as an inhibition or a suppression of hypophyseal activity of such a nature that hypophyseal secretions are delivered into the blood stream in reduced amounts

Certain environmental agents operate in some manner to influence the hormone activity of the In annual breeding forms of animals organism this added environmental factor operates upon the controlling mechanism that exists in the forms that are not similarly affected by their environment. It is not yet entirely clear whether the environmental factor operates merely to stimulate the activity of the hypophysis or to remove some analyzable inhibi-EDWARD L CORNELL, M D

Wade, N J, and Doisy, E A The Prolonged Administration of Theelin and Theelol to Male and Female Rats and Its Bearing on Reproduction Endocrinology, 1935, 19 77

A review of the literature revealed that the ultimate effect of the administration of cestrogenic substances on the reproductive behavior of the male and female animal was uncertain because of the relatively short periods of treatment. The authors conducted experiments over an extended period to determine whether male and female rats can develop normal reproductive hormones, theelin and theelol.

Male rats were injected daily after weaning with quantities of theelol varying from 0 65 to 32 0 y and of theelin varying from 1 65 to 6 6 y. The injection period ranged from one hundred and thirteen to two hundred and forty-two days. Of the 53 rats so treated, 24 successfully impregnated normal females, whereas of 39 control males, 17 stred litters

The body weight of the injected males averaged 87 per cent of the body weight of the control males

The weights of the testes, prostates, and Cosper's glands of the injected rats were less than those of the

controls.

Forty-one female rats were injected daily after scaling with quantities of their varying from 6; to 3: 57. The injections were continued for periods ranging from one handred and forty-three to three hundred and sixteen days. During this time, on matings, 6 prepandes, and 4 litter occurred. Reproduction was below normal and interference with hierathou was apparent. A F Lan, MD

Trains Rao, G. Malignant Melanoth Tumors of the Fernale Gentralia (Di sixus tumors melanotici dei granal rimminali). Res nel di giest., 934, 7 36.

The thor reports three cases of malignation methanicity turner of the femals genitalia. (a) melanocarcinoma arising from the base of a receival polyr past extending into both halls minors (\*) melanocarcinoma originating from an anall mass it the fremalum of the distorts and strending into the right labora minas and (i) a melanocarcona arising from an inter in the lot or third of the left vegical mass inter in the lot or third of the left vegical.

The treatment in all of these cases was operation supplemented by \ rey and minum irradiation. The first two patients died tw months and four months later respectively of other causes. The third was in month bouth from menths after the operation.

A review of the interature revealed that malignant melanotic tumors of the female generalis are most common between the ages of forty and sixty years Mishnocarcisons of the sruiter is run. The suther was shit to collect only six cases and to of them was insufficiently described. Frask, Addit, and Pack state that 3 per cent of all melanotic neplexem occars in the vulvar region. Toggier found mats of the vulva. The reported frequency of not anotic tempors of the vulva. The reported frequency of the shorter tempors of the vulva running from a figure of the control of the vulva fine per cent (Ganner). The suther stripburs this voice vulvation to the difficulty of daily publishing melanoscenters from notices carried and the vulvar running from the control of the regions.

Melanomata may originate in structures of the internal auritaba which are desoid of nisment or ra those of the external centrals in which persons normally abounds. Their cause is obscure. The exact cell responsible for them is unknown. Among the more aidely accepted theories regarder the origin of these turnors are Delast's theory that they aces from connective-tiene, the Durante-Cokshem theory hich attributes them to missisced exbryonic thems, and Forners a theory that they are due to the migration of pigment crits. The author agrees with Bloch that melanomats are derived from melanoblast cells. These melanoblasts are spidermal cells of the stratum basalis and spinosum and their function is the production of pigment back is transmitted to the corlum for elimination By meens of doorsinhers lalanin it is now possible to distinguish meianoblasta from chromatophoric and melanophoric cells. The author believes that this distinction will throw considerable light upon the eticlosy of the tumors. Grosox C Fraces, M D

## OBSTETRICS

# PREGNANCY AND ITS COMPLICATIONS

Tata, G The Influence of the Hormones of Pregnancy on the Growth of Bacteria (Induenza desh ormoni graviditi sullo sviluppo dei bermi)

To determine the effect of the hormones of pregnanct on the growth of bacteria the author collected unne and blood from three groups of women -nor mal non pregnant controls, normal women at various stages of pregnancy, and pregnant women with pathological conditions such as eclampsia, albuminura, severe vomiting, and vesicular nicle and added serum and unne respectively to a medium appropriate for the growth of the bacillus Paratyphosus 4. The criteria of growth were the number

As compared with the blood serum of the non pregnant women, the blood serum of the pregnant and size of the colonies nomen showed a distinct inhibitory effect on the growth of the bacteria which increased with the advance of pregnancy. The serum of the pregnant nomen with complications caused an evuberant growth of the hacillus because of its greater content

No appreciable difference in growth was noted in the media to which the urine of these groups was added Honever, when the growth in media mocu of hormones lated with serum was compared with that in media moculated with urine, it was observed that while unne inhibited growth, the serum did not cause an

In another series of experiments commercial hor mones of pregnancy were added to the media. The equal hindrance to growth extracts consisted of prolan and astrin obtained from urine and an extract of the anterior lobe of the hypophysis When added to the media in varying unit quantities, they all caused a marked increase

The author concludes that, besides these hor in the rapidity of bacterial growth mones other factors, such as endocrine and nerve factors and an anubacterial agent, ma) have influenced the results reported

Studies on Ammonia in Eclampsia (Studien ueber das Ammoniak in der Eklampsie) Llusia J B

The ammonia content of the blood during pregnancy and in eclampsia was determined by the author by the method of Tolin The findings of Bock, who noted an increase in the ammonia content of the blood during pregnancy, were confirmed. Llusia found that in pregnancy the blood ammona averaged o 26 mgm per 100 c cm in pre eclampsia, o 56 mgm, and in eclampsia, o 81 mgm During an attack of eclamptic convulsions it rose to 1 36

In the puerperium it returned In eclampsia the amount of ammonia in the nrine also increased while the urca mgm per 100 c.cm content of the urine was decreased. In the author's rapidly to normal opinion it is unlikely that nitrogen retention is responsible for the increase in the blood ammonia The increase is probably due to liver insufficiency. This is suggested by the ammonia-urea quotient in the

Determinations of the hydrogen-ion concentration and carbon dioxide tension of the blood indicated that in cclampsia there is a slight acidosis blood.

The amount of ammonia was found to be less in the umbilical blood than in the maternal blood and greater in the umbilical vein than in the umbilical The fetal liver changes the animoma into Determinations of the urea and ammonia content showed only small amounts the placenta is of no importance in the formation of artery ammonia The attacks of convulsions, but not the other symptoms of eclampsia showed a relationship to the increase in the ammonia in the blood

(MUERLEOCK) JOHN W BRENNIN, M.D.

An Analysis of 127 Cases of Eclampsia Treated by the Modified Stroganoft remmpsia remed by the Gynee, 1935, 29 27 Peckham, C II

In the period from October 15, 1924, to February 15, 1933, 127 cases of typical eclampsia were observed on the Ohstelrical Service of the Johns Hop-Lins Hospital, Baltimore, and routinely treated by the modified Stroganoff method There were 14 maternal deaths, a mortality of 11 02 per cent The death rate was highest in the postpartum variety and lowest in the intrapartum variety of the condition Since the use of the Stroganoff treatment the mortality has been less than half the mortality under the old radical forms of treatment. In cases of the mild type according to the classification of Eden it was 2 86 per cent, and in those of the severe type, The author presents a modified classification which

21 05 per cent

be believes is a more exact criterion of the prognosis than Eden's original classification. A case is classified as severe when 2 or more of the following factors are present (1) a temperature of 103 degrees F or above, (2) a pulse rate of 120 or over, (3) a systolic blood pressure of 180 or over, (4) deep and persistent

coma, and (5) 20 or more convulsions

In 102 cases of eclampsia classified as mild accord ing to this classification there were no deaths whereas in 103 which were classified as severe there were 15

deaths, a mortality of 24.27 per cent.

The maternal mortality is somewhat higher in the white than the black race. In the cases reviewed it was increased also in multiparous women and in the case of a woman late in the child-bearing period of his. In the mild form of case the modified Strogands treatment gives quite sublasticory results. In severe cases it is preferable to the old forms of radical treatment, in severe cases becoming worse under conservative therapy creamen section under local or arbul anathesia seems correlated.

EDWARD L. CORRELL M D

Schumen, W.: Heart Disease Complicating Frequency Am. J. Obst. & Green at 6, so fa-

Of the 3 case 8 feart decesse complicating prenancy which are reviewed by the thor near soon in the period between Jamary 95 and November 30, 928 when 5 8 women or odditional near 10 centre and the said strick. Heart disease therefore occurred in the said state of the said strick proximes with beautiful accessed died as the result of the proxime with the control than 4th result of the said with the said with the beautiful and the said with the said with the said with the said with the beautiful and the said with the delivery of miderate beat delivery of miderate said with the said wi

and the control of the previous history of cardiac disturbances. Fourteen had no previous hasoletge of a cardiac decade condition. In the case of 3, the cardiac discase was not recognized until 1,00 or of the postpation According to the physical signs, the docuble mixed encourage in most frequent, 1 of the 5 summer having mittral stenoids and insufficiency. Next in frequency were mixed at properties and mixed insufficiency and information of the control of the contro

The treatment was based on the requirements of the particular case. Is 8 of the g case delivery occurred at term in 6, the prepasary was interrupted and in the woman deed underbrend In 6 case creatron section with decilization was done to term, and in 4, before the child became viable. Aborton was included in — The pre-operative preparation consisted of absolute rear in bed in the begininformation of the presence of the contraction of the case, by displantation.

cases, by digitalization. Frequent conditions must be treated individually. The parity of the parity, the profit of greation at which so a facility of the parity of the p

decompensated carda lexion is seen in the strip months of perganacy the treatment of choice is abdominal hysterotomy and stechnation after the restoration of compensation. When the is seen for the first time after the period of "fablity," beofut rest until the return of compensation followed by creamen section and sternbashoo performed under ether or local angesthesis gives the best prognosis for mother and child. Howard L. Contrar, M.D.

Fitzgerald, J.E. The Management of Progress Women with Heart Disease. Am. J. Old. & Green at5, so to.

Of 0,000 pregnant women, 350 are referred to the Heart Cline, and of the latter, heart disease was found in 50. Therefore the lockdence of heart disease in the preparal clinic was 0,60 per cent

Of the 156 women with beart disease, of had mirral disease and of the latter 6 showed evidence of stemosts. T enty five ser colored Colly had a positive Wassermann reaction Eleven gs. a history of previous heart faiture Thirty-seres have been under observation for more than five year. Only 6 areas a kitacry of the compation.

Twelve of the nomen bad sortic disease. Of these, 8 were twenty years of age or younger. Mose who colored. Five of the colored somen had positive disearched in their first proup cause noder observation in their first pregnancy. The entire group has been in the chinic for an versage true of as your last.

ax years.

There were seven patients with combined mitral and aortic lesions. All had—negative Wassermans reaction. Their average time in the clinic has been six years. Six gave—definite history of rhomatism or rhomatic form.

The most examines symptons was dyspects of carrition. Of the women with milting disease, at had intermittent dyspects. The next most tropperaty graption was ordene, but thus is eather consuce in late pregnancy and does not necessarily inclusive myocardual surial. Ninetern of the or women with migral disease, 3 of the —th anothe disease, and of the y with comband battoms had chronic cough.

The whole calls attention to the fact that of a some with seven injury of the heart, is had to supplying at all. He justes that when heart fallen is prevented unding preparate, dustate during later or in the postpartum period is very rare. He has found that in that sheare of obstitricts complettions necessitating other procedures derivery by say of the varian welds extremely good results.

EDWARD L CORNELL, M.D.

Mahon, R. The Obstatrical Prognoss of Large Utseine Fibromata (Le presente obstitute) as gres fibroses utilizza: Res frauj de p. k. d. d'alet que se que

nancy is interrupted very early do not come to an obstetrical clinic

In 13 of the 19 reviewed cases of large fibroma the pregnancy was entirely normal In 5, pain occurred during the course of the pregnancy, suggesting the possibility of necrosis of the tumor, but in all was reheved by medical treatment. In no case was operation performed

The 18 cases of delivery at or near term included ı case of placenta prævia in which cæsarean section and hysterectomy were done, r case of breech presentation in which extraction was accomplished easily, 2 cases in which high forceps were applied, 3 cases requiring surgical intervention (not including the case of placenta pravia), and 12 cases of spontaneous delivery In 5 cases the postpartum period was complicated by an infection which yielded to medical treatment. In r of the latter the symptoms suggested also torsion of the fibroma on its pedicle

All of the 19 mothers were discharged from the clinic in good condition Four had been subjected to hysterectomy Seventeen of the children hved and developed normally One infant, the child of a

syphilitic mother, was stillborn.

From his study of these cases and a review of the recent literature the author concludes that pregnancy has a definite effect upon fibromata in the uterus During pregnancy, uterine fibromata tend to hypertrophy, soften, and become necrotic Very considerable necrosis may occur without causing Gangrenous or suppurative clinical symptoms degeneration of a fibroma in pregnancy is rare Pregnancy may be responsible for torsion of a While the necrosis of a pedunculated fibroma fibroma during pregnancy may not produce symptoms, it increases the chance of postpartum infection

Uterine fibromata tend to prevent pregnancy and, if conception takes place, favor the occurrence of abortion or miscarriage. Their effect is due in part to the changes in the endometrium with which they

are associated.

Fibromata interfere with the course of labor in various ways Large fibromata, especially if pedunculated or arising from the posterior wall of the uterus, may cause mechanical interference and prevent engagement of the head Multiple fibromata may infiltrate the uterine wall and interfere with normal uterine contractions Either form may cause an abnormal presentation Recent statistics and the occurrence of r2 spontaneous deliveries in the 18 cases reviewed by the author show that interference with labor occurs less frequently than might be expected.

Mahon is convinced that the prognosis of large uterine fibromata from the obstetrical view is not unfavorable for either the mother or the child Surgical interference is usually not indicated during pregnancy A trial of labor should be permitted at term to determine the degree of dystocia caused by the fibroma Surgical intervention will sometimes be necessary Under such conditions the author prefers low cæsarean section followed usually by hys

terectomy but sometimes by myomectomy When symptoms of puerperal infection develop in a fibromatous uterus, curettage is not indicated If surgical treatment is required, hysterectomy is the ALICE M MEYERS procedure of choice

A Case of Abortion Due to Psychic Pilloni, S Trauma (Su di un caso di aborto per trauma psichico) Clin oslel, 1934, 36 768

The author reports a lawsuit brought against a man for the induction of abortion by psychic trauma During the evening of May 1, the woman, who had been amenorrhæic for two months, was frightened by the threats of the accused and thereafter experienced a bloody discharge from the vagina The discharge continued for two days, but as she believed it due to the onset of the menstrual period, it caused her little concern On the third day, however, she began to have intermittent abdominal cramps, and after a few hours a mass of coagulated tissue was expelled from the vagina. A physician was called, but examined neither the extruded mass nor the patient The woman continued to bleed for two weeks, during which time she was not under the observation of a physician On May 26 she entered the hospital and was subjected to utenne curettage.

The author reviews the developments at the trial and the legal and medical questions involved These led to the legal opinion that the abortion might well have been precipitated by the psychic trauma

A. Louis Rosi, M D

### LABOR AND ITS COMPLICATIONS

Cæsarean Section A Review of 486 Hayes, W I Consecutive Operations at the Women's Hospital, Melbourne Med J Australia, 1934, 2 799

In the period of fourteen years from July, 1920, to June, 1934, 40,183 women were delivered in the Women's Hospital, Melbourne, Australia Of these, 486 (r 2 per cent) were delivered by cæsarean section The incidence of cæsarean section was higher than in private practice because of the greater number of abnormal cases admitted to public hospitals and the tendency of women with abnormal deliveries to return to the same hospital for subsequent deliveries. In the cases reviewed, both the classical and the lower uterine segment operations were done The latter was usually performed when the patient had been in labor for some time Of the mothers, 29 (59 per cent) died Of the children, 4r were stillborn and 23 died soon after birth, the total infantile mortality being therefore 13 per cent (64

Of the maternal deaths, 2 per cent were caused by the operation and 3 9 per cent were attributed to the condition for which the operation was per-

Disproportion, obstructing tumors, certain cases of placenta prævia, and genital atresia due to a newgrowth or cicatricial tissue may be considered as absolute indications for cæsarean section. In the cases of woman suffering from mechcal conditions, locinding eclampsis and renal toxemia, the treat meat should be conservative as a rule and operation should be undertaken only with full kno ledge of its

Of the cases reviewed, the operation was done for contracted poivis and disproportion in 319 with a maternal mortality of 2.5 per cent (6 of the 9 s omen.

be died were frankly septic.) for echangels in e.g. with a mortality of so per cent (the 9 deaths due to such conditions as torsends) for renal toments is so, with mortality of per cent (the deaths due to echangit toments) for piacents pravis an g, the mortality of oper cent (the 1 deaths due to pidmonary embolism) for accidents in hemorrhage 1.4, with mortality 1 apr cent (so of the 3 deaths due to beenorrhage and the result at memma) for stenoic conditions in 4 with an mortality and for medical conditions such as mirral tenosis in 8, and cardiace failure, polimonery tuber culous, presentonia and cardiace failure, multiple culous, presentonia and cardiace failure, multiple countries, and dementia percent in case catch in

mortally and for menical commons such as minustensials is, and carriage failure, polinosters tuber calcules, presented and cardiac failures, multiple to the cases of medical complications there were natural destins—of cardiac failure and, of polmonary tuberchools. Repeated sections for crashtions other than contracted pelvas were done in 8 cases with no mortality. Those cases included a formal properties of the contraction of the contraction of hydrocephalox, of inforced terms, of repeated stillightin, and on abdominal bemortage. The only death is the cases of repeated creaters section was that of the woman operated upon became of abdominal hymorrhage, who died from further hymorrhage due to an ineffective lighture

A postmorten crearest section was done in 6 cases. The cause of the death of the notion reases are cleaning at most expension of an expension of an expension of the create sections copinitis with creared hemorraps, and rupture of the term in case each. Things children were delivered—one in the case of the common with ectampais and the other in the case of the common with ectampais and the other in the case of the common with the common termination.

There were cases of ruptured uterus. In a the terms was already ruptured when the oman

as denoted the hospital, In., the reprint the last denoted the hospital, In., the reprint the last denoted the reprint the case of the cas

in In these cases there were no deaths O the remaining a case in which the reputure control in the hospital, it as probably due to the medical hadecton of babor in Flynerectomy as decision all T of the mothers duri The total morality in the cases of tende reputur as a precent. The cases of son-lyral were those in Mch no attempts at delivery had been made and the operation as per formed soon after the communication of the reputure.

## GENITO-URINARY SURGERY

### ADRENAL, KIDNEY, AND URETER

kimbrough, J. C. The Surgical Treatment of Hydronephrosis J. Urol., 1935, 33-97

The indications for surgical treatment in cases of hydronephrosis are as follows

r Fibrous changes and undtrations of the ure teral wall causing thickening and contraction with

atresia of the lumen of the ureter

- 2 Persureteral fibrosis with angulation and construction of the ureter. Cases have been observed in which the ureteral sheath appeared to have become shortened, the ureter therefore having been forced to assume a tortuous course within it. As the external appearance of the sheath in such cases may not be abnormal, this condition is often overlooked at operation.
- 3 Anomalous vessels to the lower pole of the Lidney causing angulation at the ureteropelvic junc ture or disturbing the peristaltic wave. Quinby and others have noted that an anomalous artery located in proximity to the ureter but causing no mechanical obstruction may interfere with ureteral persistalsis and produce dilatation of the renal pelvis by its pul sation.

4. Insertion of the ureter into the side of the pelvis to form a valve-like outlet which closes with intra-

pelvic pressure.

5 An anomalous position of the kidney causing angulation and obstruction of the upper portion of the ureter. The most common cause is nephroptosis, and a less frequent cause, renal rotation. If the upper part of the ureter becomes fixed by periureteral adhesions, a moderate renal excursion may produce obstruction. Congenital anomalies causing obstruction are often bilateral but vary in degree so that the hydronephrosis may appear much earlier on one side.

6 Neuromuscular dysfunction due to imbalance of the autonomic nerve supply of the kidney and

The author emphasizes the importance of nephrostomy to sidetrack the urine from the site of operation. Next in importance is splinting of the ureter by the introduction of a ureteral catheter from the nephrostomy wound. To prevent angulation the kidney should be suspended. Renal sympathectomy may be done.

The ureteral splint should be removed after from four to six days. The nephrostomy tube may be removed as early as the third week. The patient should be kept in the Trendelenburg position for at least

two weeks

The late postoperative treatment should consist of dilatations of the ureter

I SYDNEY RITTER, M D

Caporale, L The Dynamic Hydronephroses and Sympathectomy of the Ureter J Urol, 1935, 33 83

The author reports a study undertaken to determine the part played by the sympathetic nervous system in the development of hydronephrosis. He interfered with the nerve supply of the ureter by the following procedures (1) removal of the nerve thers in the serosa of the ureter, (2) denervation and the application of isophenol to the denervated area, and (3) denervation, phenolization, and the application of a cuff of cellophane around the ureter

He found that denervation was followed first by an increase in the ureteral contractions and then by gradual cessation of these contractions and a decrease in renal secretion. From this study he concludes that segmentary sympathectomy of the ureter will produce, primarily, atony in the tract itself and secondarily, a gradual periureteral atony which culminates in progressive hydro ureternephrosis. He therefore believes his experiments support the dynamic theory of hydronephrosis which until very recently was based on hypotheses.

In conclusion he says that his experiments emphasize the necessity for gentleness in the performance of uretero-ureterostomy and ureteroneostomy and in isolation of the ureter in gynecological operations

I Sidney Ritter, M D

Gibson, T E Nephrectomy Versus Autonephrectomy in Renal Tuberculosis J Urol, 1935, 33

Autonephrectomy is commonly defined as a stricture of the ureter which completely closes the ureteral lumen so that no secretion reaches the bladder. In other words, it is defined as a renal occlusion. This definition is incorrect. The term autonephrectomy" should be applied only to cases of renal tuberculosis with both complete closure of the ureter and complete destruction and transformation of the kidney into a quiescent, shrunken, caseosclerotic mass which renders surgical nephrectomy unnecessary.

Gibson reports two cases of unilateral renal tuberculosis which are examples not only of renal occlusion but also of true autonephrectomy as the destruction of the kidney by the disease process was such that the organ was not dangerous to the patient and its surgical removal was apparently not indicated. One of the patients gave a history of thirty-five years' duration, yet enjoyed excellent health without surgical removal of the kidney. In addition, this patient presented an unusual degree of calcification of the kidney and ureter

Approximately o 5 per cent of tuberculous kidneys undergo complete calcification. With quiescent

total calcification coincident with a normal condition of the bladder the proposels appears to be equally good whether the patient is treated medically or surplically. This condition is an automphirectomy in the true sense of the word because surplical nephrec

tomy is apparently not necessary

Real occlusion produces to general types of cases, one this tumor and the ther with attrophy of the affected organ, and the ther with attrophy of the affected organ, and the attrophy of the affected organ, and attrophy of the affected organ, and attrophy of the affected organ attrophy of the affected or the attrophy of the attraction of the attractio

ymptoms with complete destruction and transformation of the kidney for a shrunker execoederoffmass which has removed little from the aphere of danger to the patient, exphrectomy fa not accessary fa the problems of nephrectomy rerus automphrectomy the conclusion seems justified that incertain cases of unstateral cast tuberradients conforming t

the definition of autonephrectomy suggested by the author nephrectomy is not necessary or t least the risk of non interference is no greater than the risk of applications C Tas as brazza, M D

- freedoment

#### BLADDER, URRTHRA, AND DENTS

Musro, D., and Hahn, J.: Tidal Drainage of the Urinary Bladder. A Preliminary Report of This Vethod of Treatment As Applied to "Coré Bladders," with Description of the Apparatus. Ven Exclud. J. Med. 1815. 19.

The squarette for iteld draining of the unany bladder shich described by the authory trenately fail his bladder to a predetermined beight and then empleted the conditionation of phonoages days by flow. When croassation is complete the alphon in intercepted Althe being pel bits action the system works stomatically. The nathony economical this pas of draining for all 1900 or ord bladders they classify cord bladders as ( ) atomic cord bladders, and (a) tomatically ordered bladders, and (a) tomatically ordered bladders, and (a) name of the cord bladders, and (b) name of the cord bladders, and (b) name of the cord bladders, and (b) name of the cord bladders, and (c) name of the cord bladders, and (d) name of the cord bladders, and (d) name of the cord bladders and (d) name of the cord bladders, and (d) name of the

Plakier G. E., and Vastine J H. Reentier Disgnosis and Treatment of Tumors of the Stadder J Am M Air 1935 o4 609

The nulbors advise all cystography as an adjuset to cystocopy i the diagnosis of bladder tumors. I this procedure the bladder is filled with all things calletter part he pount as bladder with all the part as which the pattest expenses the seasation of (fill bladder vinerios and posterior rotestigeosprams and in some instances of the part of

embolism or emphysems of the pelvic times

By means of air cy stograms tumors of the bladder ranging is size irons t to 8 cm, can be demonstrated and their enlargement or reduction recorded photographically Teacours F Grazza, M.D.

Hinselmann, H. What Does Leucopialite of the Feoile Teach 1. 1 (Was Ichres win der Presserhopinismi). Zeutralki f Gyant. etc. D. 201.

Lencoplaids of the penis as observed fort by Perrin Later t as reported by Kraus, Genser Nichen, and others. Up to January 1931 about fifty cases were studied and recorded.

In a new case operated upon by Veller Historians is estigated the relation of lecopolation of the penis to fencepolation of the terms. He reschited that, his lecopolation of the perish, lecopolation of the perish, lecopalation of the perish, lecopalation of the perish, lecopalation of the penish is the starting point of errore. This conclusion is supported by the fact that side (3 per cent) of fifty-one cases of lecopolation of the penish reported in the hiterature aboved carrianes and carrianes as found in 13 per cent of the matrix areas in the fenile regulation.

Diopsies from an area of leurophika to establish the diagnosh of extracers are to be reodersted since, as only fraction of section may show cardioms, the probability of obtaining the cardiomestors tusine for reieroscopic establishing by hosping spractically and and the possibility of militage disastrous sepairi. Only complete sections of the leurophika in prasticable. Partial extractors is both theoretically and actually chapterous becamped it may be followed by finding cardiomentous growth, as in Case only Historical II is partially as ensomation leurophika is not realizedly removed by openions, at will progress in backet creatility as creamations.

at will propress in the boolst certainty to carclesses bether it is in the portio or on the peat. Like carclessests of the portio having their output is lemonylakts, carclessests of the peals of similar origin require many years for their of relocated.

Retrograsion of a fully the eloped learophine of the penns has not been observed by linerinsana ( apphintic leurophila) of the portle, after rett gradon, recurred at the same air everal years liter Only the prolapse leurophilas, which are unique also microscopicilly may dispersed as they are the microscopicilly may dispersed as they are the control of the prolapse and the prolapse and datappear when the frintiation is removed.

The matrix area is the peak are also recognise more easily as the best of the colpacope, in the case spectral, the cartineria specifics as a substitute to the portion. The chief differences best for pathial of the peak and leccordulate of the peak of the collection of the chief differences between that the former cruics subject complaints not us menulist a ruleal suspect therapy here is latter develops althout unproma and its irrainest is functionally and psychically of see all.

(Same N tains ) see N (Same N

### GENITAL ORGANS

Achenbach, S The Treatment of Varicocele (Zur Behandlung der Varicocele) Chirurg, 1934, 6 747

The author rejects the theory frequently advanced that resection of the pampiniform plexus is the "normal procedure" in varicocele. The defects of the method are evident not only in the frequent immediate sequelæ (necrosis of the testicle and huge scrotal hæmatomata) but also in late complications (atrophy of the testicle and hydrocele)

On the basis of his own experience Achenbach recommends the less radical scrotal resection supplemented by a Bassini operation when an inguinal hernia is present. In all of his cases so treated the subjective symptoms were relieved almost com-

pletely

Resection of the plexus is associated with a number of dangers. When the surgeon has been too radical the flow of venous blood from the testicle may not be sufficient. As the result of knotting of the venous stumps with one another the resected veins may become patent again. The internal spermatic artery, which is difficult to recognize and isolate, may be ligated accidentally. Moreover, it is usually impossible to avoid resection of the fine nerves leading to the testicle, which frequently results in subsequent atrophy of the organ

In the recent literature the advice is frequently given to try conservative methods (cold baths and douches, the wearing of a suspensory) first, especially in cases with mild subjective symptoms and when there is a marked disproportion between the objective findings and the complaints of the patient (neurasthenics and sexual neurotics)

The author hesitates to recommend injection of the venous plexus with corrosive substances because of the danger of a marked perivascular reaction with injury to artery and nerve branches

(W POHLE) JOHN W BRENNAN, M D

Cecil, A B The Extrusion Operation for Tuberculosis of the Epididymis J Urol, 1935, 33 160

In the technique described by the author the scrotum is cleaned and any tuberculous sinuses present are painted with pure carbolic acid. The scrotum is then seized and gentle pressure is made above the testicle An elliptical incision is made through the skin around the sinus and while the pressure above the testicle is maintained with the hand, very light elliptical cuts are made concentrically close around the elliptical skin incision, bands of tissue being divided directly down to the tunica vaginalis When the cuts are kept close to the central portion of skin a thick scrotal wall is maintained, opening of abscesses is avoided as any abscesses can be seen, and the tissues can be cut lightly further out. As the cuts are made, the testicle and epididymis become extruded from the scrotum and all bleeding points can be seen and ligated Ligation of bleeding points is important to insure a dry scrotal bed to which to return the testicle

In this manner the testicle is extruded through the wound rather than delivered as is done when the socalled high incision is made, and trauma is avoided. The scrotum, which has not been in any way contaminated, is immediately wrapped with salt packs, covered with a towel, and kept surgically clean The placing of packs under the testicle completes the preparation for epididymectomy The tunica vaginalis is then opened and the epididymis separated from the testicle The epididymis and testicle are both wrapped in warm salt packs and set aside A clamp is pushed up along the vas until it reaches the external ring A small mick is then made over the tip of this clamp and another clamp is pushed down along the same path. The latter is used to clamp off the vas The vas is cut between two clamps and thoroughly carbolized The clamp and vas are then drawn upward to bring the vas out in the groin At no time is the clamp removed from the vas Ligation of the vas is not attempted

A single stitch is passed through the nick and the suture then lightly tied about the vas. The clamp with the vas still fastened in it is wrapped in gauze and strapped to the abdomen. The scrotum is pulled down over the testicle and closed by interrupted dermal sutures. A dry dressing is applied without collodion. The scrotum is supported with a binder

After seven or eight days the vas comes away at the level of the skin in much the same manner as the umbilical cord shrivels and dies. In cases in which the vas has seemed to keep up its blood supply a ligature has been lightly tied around it at the skin level to cause it to slough

The advantages of this operation over the socalled high incision procedure are summarized as

follows

r Soiling of the scrotal bed is avoided at all times

2 The extrusion of the testicle through the scrotum with the sinus formation attached renders multiple incisions unnecessary

3 Trauma is avoided.

- 4 The entire thickness of the scrotum is preserved
- 5 Bleeding points can be seen and taken up as concentric cuts are made
- 6 Soiling of the wound by the vas is prevented 7 The wound heals by primary intention in a large majority of the cases

C TRAVERS STEPITA, M.D.

### MISCELLANEOUS

Hansen, J Experiences and End-Results in Injuries of the Urinary Passages (Erfahrungen und Ergebnisse bei Verletzungen der Harnwege) Ergebn d Chir, 1934, 27 470

The author reports on 17 cases of bladder injury, 60 cases of kidney injury, and 135 cases of injury of the urethra

Of the cases of bladder injury, 70 per cent were fatal The high mortality was due chiefly to the severity of the injuries, most of which were complicated by fractures of the pelvis and severe hæmor-

risess occurring int the polytic connective these and extanding far into the retroparitones traces. In such cases the danger of phlesmonous prine infiltre. tion is ery great. It is therefore up for to be satisfied with the introduction of a retention cutheter even if at first it seems sufficient. The treatment of choice is suprapulic cystotomy. Harren belleves that in its execution the introduction of a pretheal catheter is injurious. After the tear in the bladder has been ell autured, sunrapublic drainage with a very large rubber tube is enfected. The treatment of so called intraperitoneal runture of the bladdenis which isnamtomy is necessary and if nowable extraneritoneolization of the site of the tree is done hy libblehrandt a technique is the same. Hansen ductions the literature on the occurrence and slone of rentmet of the bladder. As in all of bis cases the moture occurred in association with fractures of the pelvis, the injuries ere not tears but punctures Traumatic rupture of the bladder is not very conmon. The cause of death after runture is bernor

rhage, sep-is, or unemia, not peritonitis
Of the 60 reviewed cases of kidney injury 47 ere
treated expectantly with mortality of 8 per cent and a cre treated sorrically with mortably of to per cent I discussing the expection of renture of the Luiney Hanson, traches some importance t Kuester theory of adduction movements of the lower ribs and direct crushing or bursting of the orran lionever he ejects Kumter's theory that hydraulic pressure is the cause of the rupture. For diagnosis and determination of the operative indica tion the author advises exerction americally as the nature and duration of the hemorrhese does not nermit definite conclusions as t. the severity of the minry In only 7 5 per cent of the reviewed cases was stone formation found after the Lidney inver-Tranmatic hydronephrous was observed in only per cent. The occurrence of traumatic floating new never occur as the consequence of accidental in-

mry t the organ However all later examinations reveal some degree of pyclonephritis. The operative treatment of choice is nephractors; which alone seems t give sood easit

In the 11 cases of unthral injury reviewed the total mortality was so per cent, but if the bond cases are excinded. It was only to per cent postoperativ mortality was 41 per cent, but if the hopeless cases are excluded it was only all her men In all cases in hich a residual catheter was my nimed, whether they were treated surrically as expectantly evidences of infection present after few days. I here ranged from mild the comese to the

most severe urinary phiesmons and because and ers attributable undoubtedly to the residual catheter 1 all but shout to per cent of the cases this infection caused later complications of much more importance than strictures and fatale-omely melonenhritus conditions in both Lidneys contracted Udaers, and mormons stone formation The author therefore opposes the use of the rendual catheter in any form. For the milder cases of ncomplete runsars of the arethra be advocates expert ant treatment and for all others immediate some nuble extentions and later enters of the arriva thout the introduction of ratheter from the

performs. In the cases reviewed the incidence of anatomical healing was low-under anatomical healing was low-under per cent Chalcal cure as obtained i 26 per cent of 45 cases treated expertantly 17 per cent of a treated by superpublic section, and 35 per cent of 4 trested by low section. The incidence of bealing obtained by all methods as poroximately to per cent

(Tamers) Len & Brance M.D.

Howard, M. E., and Straues, M. J. Lympio-gramstoms inguinate. A Report of Suisses. Cases In and Around New Haven. Von England J Med 935 uı

Of the sixteen nationts bose cases are reported by the thors, eleves were males. In all of the cases there was positive reaction to Frem autient In all of the females the condition as associated th atracture of the rectum. The cases or of long of males were observed before suppuration of the inguinal glands had taken place Repeated intradermal or intra enous injections of Freez' antigen caused discharging sanges to heal TREOFER P GARRIE M D

## SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

## CONDITIONS OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Maxwell, J P Further Studies in Adult Rickets (Osteomalacia) and Fetal Rickets Proc Roy Soc Med, Lond, 1935, 28 205

Maxwell discusses rickets from the standpoint of the obstetrician. He first describes a pelvis severely deformed by osteomalacia which was obtained from Shansi, China, and is now in the muscum of the Royal College of Surgeons. This pelvis is so contracted anteriorly that the acetabula open almost forward. The height of the pelvis is almost exactly half the width. The anterior part of the outlet is V-shaped instead of the normal wide oval, and the edges are rough and jagged. The width from the outer edge of one ischial tuberosity to the other is a little less than two-fifths of the width from one ihac crest to the other.

The specimen was obtained at autopsy from the body of a woman thirty-nine years of age who died following a casarean operation. The generalized skeletal deformity, especially an overlapping of the ribs on the ilium on one side, rendered delivery very difficult. The lumbar spine was analylosed between

the transverse and spinous processes

Next described is the extremely deformed and asymmetrical pelvis of a woman of forty-three years who died after delivery of a dead fetus at term by cæsarean section. The baby had fetal rickets. The mother gave a history of osteomalacia with pain in the back and legs, diminution of height, and tetany. The ends of all of the long bones and the ribs showed irregularities and imperfections of ossification. The vertebræ showed bulging of the intervertebral disks into the osteoporotic bodies, which is characteristic.

The author reports the case of a woman twentynine years old in whom osteomalacia developed rather rapidly after a normal delivery. The blood calcium was 7 3 mgm and the blood phosphorus 4 0 mgm. per 100 c cm. The calcium content of the patient's milk was low 17 7 mgm. Two months after delivery the pelvis was so deformed that another normal delivery would have been impossible

The author holds that osteomalacia and rickets are very closely related, if not the same disease in different periods of life. It has been stated that in India all babies born of osteomalacic mothers tend to develop rickets and some of them develop tetany. The author cites three Chinese women who had both the bow legs or knock knees of rickets and the deformed pelvis of osteomalacia. While pain in the legs and back is a common symptom of osteomalacia, rickets is never a painful disease.

Sixteen cases of fetal rickets are reported in tabular form. In fourteen, the mother had osteomalacia

The occurrence of fetal rickets should be suspected if the mother's blood calcium is low or if the product of the blood calcium times the blood phosphorus is under 20. Evidence of rickets has been found by microscopic examination of fetal bones when roentigen examination showed no signs of it. The bones in fetal rickets show lower figures for dry weight, weight of ash, calcium content, and phosphorus content. In one case the early diagnosis of fetal rickets was confirmed by defects in the development of the enamel of the teeth when they came through

Calcium-phosphorus metabolism and phy siological

chemistry in general are discussed
WILLIAM ARTHUR CLARK, M D

Vastine, J. H., and Bacon, E. P. Osteltis Tuberculosa Multiplex Cystica, with a Report of Two Cases Radiology, 1935, 24, 22

The type of hone tuberculosis discussed by the authors was prohably first described by Kreibish in 1904, but was first called "osteits tuberculosa multiplex cystica" by Juengling in 1920. It occurs in the shafts of long bones, including the phalanges. Unlike the metaphyseal form of tuherculosis, it forms multiple lesions. It probably has its origin in tuherculous lymph nodes in the chest and is disseminated through the blood stream. The result of each lesion is a cyst. The cortex is thin and sometimes expanded. As pain is absent and there may be no swelling over the affected bone, the disease is often unrecognized. It is probably present in many cases of infantile tuherculosis. There are records of cases in which the cortex broke down, an abscess appeared in the soft tissues, and a sinus was formed through the skin.

Fever occurs only when a secondary infection has developed Anæmia, leucopænia, and lymphocytosis constitute the usual blood picture. The normal chemical character of the blood differentiates this tuberculous cyst condition from osteitis fibrosa cystica. The diagnosis is made by roentgen examination. A positive tuberculin and a negative Wasser-

mann reaction are important findings

The authors report two cases The first was that of a male infant seventeen months old who had had lumps on the fingers, wrists, ankles, and feet since he was six months old. The skin over the swellings had ulcerated The child was under normal weight Examination disclosed infected tonsils, moderate rickets, and multiple hard and painless swellings on the feet, hands, forehead, forearms, and ankles The blood count showed anæmia The blood calcium was 7 mgm. per 100 c cm of serum Urinalysis was negative Biopsy on a fragment of the fibula showed typical tubercles in the granulation tissue, areas of necrosis, active bone prohiferation near the granula-

tions, and so typical boss marrow. During the six seels the child was in the bospital his general condition improved. It, weeks later the bony as ellings on the forehead had disappeared and those on the hands were smaller.

The nulbors second case was that of a boy two years old who had hard, positions exclining on the hack of the lated and at the angle of the jaw and was saffering from tuberchool breachopseumonia and outli media. Examination of the blood she essential. The blood calcium as 8 ranges per no essential. The blood calcium as 8 ranges per no tuberchin test was positive. Uritallyist was negative. During the four weeks the patient was in the hospital there was no improvement in the lone lateral, but the tuberchines breachopseumonia and leaders, but the tuberchines breachopseumonia and

otitis modia a ere refleved. In such cases the rosate coorram show rarefaction originating in the marrow and producing spotty appearance. The legion may spread diffusely or remain circumscribed In the phalanges multiple lealons are the rate. In the diffuse type the cortex and medulla cannot be differentiated. The bone is usually increased in chameter and may show scla-rosis. The bone atrophy which is so characteristic of the common form of joint tuberculous is not prominent. In the elegeneenhed type the lesions have a punched-out appearance and the very thin cortex is either expanded destroyed This is said to represent a healing stage. In the uthors first case, an example of the circumscribed type the lesion remained stationary for several years. In the right table and fibule several stages of costic taber culose could be found the diffuse type, the sharpl dramscribed type, the quiescent type, and a rupture through the cortex with sinus formation the second case rocatera cramination showed areas of decreased density in the jaw and similar and sharply punched-out areas in the bonce of the hand Flity-six months later these areas had disappeared in the jaw and had practically desappeared in the hand WILLIAM ARTROD CLARK, M D.

Van der Linden, P.; Perferticular Injections of Novocalu in the Manatement of Sprains and Traumatic Arthritis (Penerthikare Novocamaspotanegen is Beisnaftent for verlandengen und traumatischen Arthritisch) Dude f eriter Chegat, 61 p.

According to Lenche, the afferrant nerve them such the among bother is its joint tondoors are of great importance in joint conditions as, through them, speakin may give in no lost or whort reflers which influence the nucleic, boxes, and is movida members of the affected part by y of the sympathetic Lerichie found that by the perviscular superflow of local anesthetie, it was possible temporarily to overcome the himitation of movement and the pain in the joint energe in cases with grow anatomical lajuring it the joint surfaces. The branchial effect lasted much longer than the usual local anesthours.

The freedom from pain lasted for hours and often

even for days. When the pain recurred, the lajer tion as repeated. Cure resulted after from four to six injections.

At the Grange-Blanche Hospital, Lyons, the treatment has been employed over period of years as the procedure of choice for all cases of sprile and transmatic arthritis. It is begun as soon as fracture or other severe anatomical injury has been railed out

After diantection of the Len a per cert solvine of norrectin without adressin is fajected in the region of the articular ligaments, particularly at the region of the articular ligaments, particularly at the region of the polyton polytonia. The assuments amount of the solution injected is better as yet as 40 c cm. When the pain recurs the injection a repeated

The author reports number of ceass though the value of this treatment.

(Drost) Jaco E Kirne, M.D.

Paulian, D. Research on the Myopathies (Recherches sur les myopathes). Prins ald., Per

934, at 2007
The following five clinical types of myopathy have been described in the filterature. ( ) pecule-kuper tropble paralysis, (s) the Layden-Morbins type, (s) the javanile type or suspelsharsers! type of Erb, (d)

the incloses pulobumeral type (Landousy Départie)

and (5) the Zimmondia type.

Fourtest case have been studied by the status In sevens, the conclude began before the age of its years. In almost all these or trophic decoders, continuations, and removator distribution of the continuation of the co

The nathor describes the changes found in the heals and cord by Folk and Nichesec and the results of studies of muscle them to obtained by bloops force four cases of pseudohypertrophes muscular dytrophy. The latter have been reported previously by the author in collaboration with Scribes.

Paulian believes that, in general, the myopathies are due to defects of intra-stems development and can be explained best on an embryological best

MARRE W POOLS, MD

Cheamet, G. Painful Conditions of the Resthisempular Region and Their Treatment Will Physical Agents (Les signs expolohectures of law trainment per les agents physiques). Press and Pay 814.4 2013.

Channet describes diseased syndrome channels and enable by permittent paid in the shoother life shoothers. It is present that the property of the delical strends are the strends and transfer of pressure over creatin points. In some cases there may be pain radiating down the arm and strophy of muscles other than the delical with more natural functional density of the shoother joan. The yadrone has been given the name "scapulobousers) perarathnits

Abduction of the arm is not difficult in the beginning, but becomes more limited until the arm cannot be raised above the horizontal. The limit ition is due to involvement of the subacronical bursa, the tendon of the supraspinatus, and the head of the briefs.

Tenderness is found over the tip of the acromion and in front of the shoulder over the head of the numerus. Rounteen examination is very useful in differentiating this condition from conditions causing cervicobrachial neuralgia and from injuries of the shoulder. It may reveal o teoporotic changes in the scapula or humerus or elemention in the soft tissues in the subacromial barsa or along the tendons of the supraspinates or breeps.

Of the physical agents used, deep be it obtained by diathermy or infrared irradiation is beneficial, but the author finds roent, en irradiation most effective He administers a moderate dose two or three times weekly anteroposteriorly and from the lateral position. Benefit becomes apparent after from a week to a month and complete cure is the rule. The calcium deposits gradually disappear. Chaumet almost always supplements the roent, en treatment by intrared irradiation.

Wight W. Poole W. D.

Sejiiar, J. The Lennis Arm. Its Cause and Freatment (Fenn arm—Ursache, Behandlung). Koll Car & Grusek C. erir, 1034, 13-154

Thirty per cent of joint injuries due to sports in valve the region of the elbow joint. The clinical picture of the so called "tennis arm is characterized by pain in the region of the lateral epicondyle. I here fore some orthopedists have attributed the condition to a so called epicondylitis. Others have denied the occurrence of epicondylitis. At first, the pain occurs only during strenuous use of the arm. Later it may gradually become more severe and radiate along the radial side of the foreign to the tingers and into the upper arm. It is then associated with very trouble some weakening of the muscular power of the arm, and eventually it is present even when the arm is at rest.

The objective findings, especially in the chronic forms, frequently show no abnormalities. The mobility of the joint is not limited, and in the majority of cases rountgen examination fails to reveal any change which vill explain the severe pain. Even in chronic cases a positive rountgen finding is exceptional. Possible causes of the condition are

- I hi injury of the muscular and tendinous soft parts, especially the extensors and supmators of the hand (intramuscular hamorrhages, the deposition of calcium salts, and possibly even new bone formation), tears of the muscle insertions (particularly of the hrachioradialis muscle and the extensor carpinadials longior), and injury of the fascile and the perimysium
- $^{2}\,$  Å true periostitis of the external epicondyle of the humerus.
- 3 Bursitis The bursa in question is not always present and its bilateral occurrence is especially infrequent. It lies under the insertion of the extensor

musculature in the region of the epicondyle and normally measures 1 by 0.5 cm. In the presence of the inflammation it varies in size and in its relation ship to the surrounding structures. When the deposition of calcium occurs the roentsen picture may be confused with that of periosities of the epicondyle Carp attributed tennis arm in five men and three women to such a bursitis.

- 4 Neuralagia or neuritis (radial and lateral antebrachtal cutaneous nerves)
- 5 Changes in the joint capsule, especially chronic inflammation, on the volve side of the collateral radial ligament
- o Subluxation of the head of the radius with possibly pinching of the stretched joint capsule in the joint space.
- 7 Injuries and strangulations of the annular ridial ligament (Mills) According to the statistics of knoll, true severe articular changes were not found in forty five German tennis players who were subjected to repeated examinations. Another investigator was able to find a severe arthritis deformans of the head of the radius in the case of only one tennis player. A circumscribed so called periarthritis humeroradialis is probably very seldom the cause of the pain.

Just as varied as the etiological factors of the condition are the methods of treatment. The procedure of choice consists in directing the patient to avoid every activity causing the pain and immobilizing the close joint at a right angle for from three to four veeks by a removable rectangular splint applied on the flevor surface. The particularly painful spots should be well padded. According to Carp, bursitis is best treated by causing the bursa to burst by in creased pressure under general anasthesia. If this is not successful the bursa should be removed by operation.

o As surgical treatment, Hohmaun recommends, for chronic cases, separation of the nbers of the extensor carpi radialis from their bony insertion on the epicondyle. He claims that this procedure has a favorable effect on the penosteal irritation However, it may fail and in some cases may even cause the condition to become worse. Other surgeons recommend chiseling off the entire epicondyle

(IRSIGLER) HARRY I SILZMANN, MID

kadrnka, S, and Mach R Hygromata of the Epicondylian and Bicipital Bursae Containing Rice Bodics A Contribution to the Clinical and Roentgen Study of Chronic Bursitis (Hygromas à grans naiformes des bourses (picondylienne et bicipitale Contribution à l'etude clinique et radiologique des bursites chroniques) Res d'orthop, 1935, 22 26

The case reported was that of a man forty-one years old who, at the age of sixteen years, sustained an injury to both elbows with resulting atrophy of the forcarms for which he was exempted from military service. Five months before his admission to the hospital he had fallen and struck on his left

elbow. A large swelling believed to be a bematome. developed around the joint. When the nations was admitted to the hospital the cibow presented large fundorms elling and was held in position of she's flexion and propation. Extension and rotation were limited

The menternorram showed tw . forther inxation of the albow due to a pathological fracture complicating old tuberculors and double burntie of the hirinital and encondular horse. The elea bodics in the hygromata were distinctly visible. The rounteen disgrous was confirmed by the findings t anioney

Burnets of the bicipital and enloadylar horse is rare. In the case reported it was evidently brought about by the merhanical conclusions in the inforced elbow This case shows that rice-body hygromats. are not necessarily tuberculous. Although there was an old t berculosis of the elbow histological examination showed no evidence I inhermicals in the bursa and the bursitis was evidently of traumatic origin. The diagnosis is difficult in each cases particularly as the clinical signs are masked by lexion of the joint (pathological fracture and invastica with ankylosis). In the case reported the clinical signs suggested tuberculous in cold abserts. The disguosa was made only by roenteen examination. fact she ing the importance of such an examina

tion in chronic burnith. The roenteen nictur of rice body burntle is costic pers-articular shadow AITMEN GOES MORGAN, M D.

Fig. M. 1 The Pathosenesis of Painful Properties in Young Children; Catching of the Bicipital Tuberosity on the Posterior Creat of the Bici-atgmoid Cavity of the Ulna (Pathograis de la pronation douloureuse des jeunes cafants l'accro-chage de la tabirrenté houatale à la crète peuti-tionre de la cavité sors-agmodienne du cetates) Em. Cathor

935 41 5 The author reports experiments on the cadever which show that painful pronation in children is caused by implement of the biclostal tuberouty on the posterior creat of the lamer algement cavity of the ulns. He shows the mechanism of the action by diagrams The normal eval head of the radius cannot pass back of the crest of the cavity. When the head is circular it slips back and is caught so that normal supination is readered impossible Painful propertion occurs when a child is pulled along by the arm by the mother A movement of traction and abduction is produced. The child feels pain and the arm remains in pronation. It can be red ced by movement of supmation followed by flexion. This is accommanied by cracking sound. The sound was beard in the experiments on the cadaver when the rounded head of the radius was reduced to to normal position. The author therefore believes that painful propation is due primarily to a congenital malformation of the bone and ta pathogenesis is similar t that of certain recurrent luxations of the shoulder or patella ACTUREY COM MORIAN, M D

Almes, A., and Pares, L. Condensation of the San lunar Bone (Condensation du seus braue). Po-Parish Old AT 100

A man twenty-six years of are who had had no persons interv to his hand or wrist maternal ound of the right index forcer which became to fected. About three works later an abacea des closed on the back of the right rist, but did not drain A few day later the entire wrist was swollen and ness ful and required inmobalization. Tw. months after the original infection regularmogram showed extreme rarefaction of all the carnel bones errore the semilinar bone. The semiliaar bone as devor-

than normal and its contour was indefinite The wrist and finent became almost and but later the stiffness as reduced by physical therapy.
Pain and tenderness persisted for about it a months The last roenteenceram showed the semilurar hone

still very oranne and irregular in ontiles This case demonstrates defautely that condessetion of the semilunar bone which has at ay been attributed to trauma may be of infectious errors

WILLIAM ARTHUR CLASS, M D.

Jamess, M. r. Notes on Scotleels and Round Shoulders: Their Cause and Their Treatment (Ondgrams protes per la acrolinas et la dos rosal laur casan et lest transment) for Cortley ofthe for

As remain large against scolloule, child should not be allo ed to set up before it is old mough to alk The pillars of the disphragm are attached to the lower thoracle solue in such manner that with each impiratio there is more pull from the left than from the right. The pull from the left therefore has tendency to produce a left thoracolombur curve At the same time, the left lang, having a greater emension than the right, pushes against the and neht thoracic thoracic spine and tends to cause archods. A child sitting in its cob will almost have its knees extended. Doubtion causing the some to assume long kyphosis hith may become more or less fixed as the vertabre become harder.

It has been contomary to speak of primary and compensatory curves, but the thor holds that three curves may develop almultaneously before the child begons to walk and therefore before the neces arty for compensation to preserve body balance arrass. An infant often sats in an incifered position, for mample, in the mother' arm, with the privis tilted and the lumber spine making lateral curve in addition, it may it us its neck while suring, thus causing a high thorack and carried curve. A child may be kept from sitting up by strapping a cross behind the buttocks with the long arm of the

cross extending toward the feet

Treatment should be begun as early as possible. It is estimated that in the case of patient sistees years of ago the difficulties of correction are fit times as great as in child of tw years and sistees times as great as in baby of your, Massegs and exercises are useless cheerly because they are crotiaued for only an hour or so In the author's precedure the treatment is continuous, day and night. The corrective force is applied to one curve only, and the curve is over corrected. In the cases of older patients, in whom the curve cannot be reversed, the aim is to shorten the curve. During the day the patient wears a rather simple brace anchored to the pelvis by a band. A wide pressure pad pushes against the thoracic curve and a narrow leather band around the neck holds the brace tight against the curve. At night, a corrective plaster bed is used.

Scohosis in adults and very severe scoliosis in children, including paralytics, are not treated by this method. They require operative fusion of the

spine

The good results obtained in three cases are shown by illustrations A similar brace may be used for kyphosis William Arthur Clark VID

Linde, F Can the Old View of the Constantly Accidental Origin of Rupture of the Interarticular Ligaments of the Knee Be Saved? (Ann die alte Anschauung von der stets unfallsweisen I niste hung des Knebandscheibennisses gerettet werden?)

Med Alin, 1934, 2 1556

On the basis of his experiences in the treatment of more than 400 meniscal injuries the author discusses critically the theory often advanced recently that many ruptures of the meniscus are spontaneous ruptures due to attrition Because of this theory a relationship of injury is recognized only when there is a history of a severe external force causing hamorrhage into the joint and disability. The author states that rupture of the meniscus is almost never the result of the direct action of severe external force. As a rule it follows a mild accident such as slipping, a misstep, or stumbling Frequently it occurs in rising from a squatting position or after prolonged kneeling or sitting with the legs crossed or other changes from such positions. With flexion of the knee and turning of the leg outward the meniscus changes its position and thereby becomes engaged more easily in the "pinchers of the tuberosity" In this process reflex and involuntary muscle contractions play an important rôle. These statements apply also to rupture of the meniscus in ski riders

In the cases of miners, injuries of the meniscus are usually limited to the interarticular portion because as a rule there is no bodily swing, whereas in injuries due to sports, extension of the rupture to the capsule and associated injury of the crucial ligaments are common because of the swing of the body. This explains why effusion of blood into the knee joint occurs more frequently in injuries due to the sports than in injuries sustained by miners. With few exceptions, miners present the "meniscus bipartitus"

Microscopic examinations of removed menisci made by Husten showed that in 75 per cent of the cases the microscopic changes varied directly with the length of time that had elapsed between the accident and the operation. On the basis of the microscopic findings it seemed justifiable to conclude that in all of the cases the changes observed had occurred after the rupture. Apparently they depended upon the severity of the nutritional disturbance caused by the injury. As the result of disregarding the physiological anabolic and catabolic processes occurring constantly in the interarticular portion of the micriscus as well as in all other living tissue, it has been erroneously concluded that the citabolic changes found in the interarticular portion of the micriscus are evidences of pathological erosion.

The relation of the microscopic findings to the length of time elapsing between the injury blamed and the operation is shown by the author by a table The majority of the cases without microscopically demonstrable pathological changes or with only slight changes were early cases. In most of the cases with moderate changes the injury had occurred about four months previously, and in those with marked changes it had occurred six months or more In the early cases the microscopic changes were found chiefly at the edges of the tear The older the case the more frequently were changes demonstrable within the torn meniscus. The theory of spontaneous tearing is refuted also by the fact that rupture of the meniscus is never found in knee conditions of other types in which the meniscus is involved. In the cases of a number of miners who for years had worked in the kneeling position for days at a time no catabolic changes were found in the memscus removed for rupture. Neither were such changes found in the meniscus removed for rupture in numerous cases in which erosion could not have been produced by the patient's occupation In such cases only a mild injury such as slipping came up for consideration

The decision of the Government Insurance Department that, to prove a relationship between rupture of the meniscus and an accident, visible evidences of the accident blamed are necessary, and the refusal of that department to recognize such a relationship in a case in which the condition was attributed to an ordinary movement (rising from a kneeling position), the author believes is incorrect

(KONJETZNY) LOUIS NEUWELT, M D

## SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Schwartz, A Results of Tendon Suture In the Hand (Die Erfolge der Sehnennachte an der Hand) 1934 Basel, Dissertation

The author reviews 390 cases in which tendon suture was done in the Surgical Chinc of the University of Basel in the period from 1922 to 1932, exclusive of cases with major complications such as fractures, luxations, and injuries of large vessels and nerves. Two hundred and seventy-three (60 per cent) of the injuries involved extensors and 117 (30 per cent) involved flevors. Of the injuries of extensors, 104 (614 per cent) were cured completely

and to (o r per cent) were cored incompletely. Of the infuries of flexors, 46 (4 her cent) were cured completely and so ( 7 6 per cent) were cured incomoletely In 60 cases of extensor injury and 55 of figure injury the cause of poor results could be ascertained. In vs (58 x per cent) of the former and 48 (87 4 per cent) of the latter the failure was due to adhesions in 5 (5 per cent) I the former and 4 (7-4 per cent) of the latter to infection in 7 (7.6 per cent) of the former and (3.8 per cent) of the latter to later supportative processes and in a fe per cent) of the former and r (r & per cent) of the latter to cuttles through of the entures Of considerable importance is the location of the

injury. The nearer the injury to the and phalans the properties prognosts. This is true also of opening of the loints. The prognosts is best in injuries of the dores) surface of the band, apparently because of the

mobality of the alia in this part

The are of the nations is also factor as the best results are obtained in the cases of patients between twelve and t enty years of age. In the younger nationts the poorer results are due to insufficient immobilization, and in the older patients to continged regression of the vascular supply. The period of immobilization is indefinite, depending on the patient s ago, whether the ound is infected or not, and ther factors. The poorer healing tendency of the flerors may be explained on saveral grounds. Receives of their mottless, these tendors are exposed greater mechanical irritation, as the result of which, according to Sydenka, the tendon cells produce an intercellular substance and surround themselves ith a capsule, thereby coming t resemble cartilars cells Consequently is case of injury a premature and laterior callus is formed. The effects of pressure from the paratenon and endotenonfrom fibrocytic elements of which, according t Gaza, Gerlach, and Gasel, the regeneration arisesbinders the regeneration Other factors are the ease with which infection spreads through tendon shouthe and the impossibility of disinfecting flexor tendons which are situated deep in the tresues

The article is concluded the braci discussion of therapy I the anthor's cases the wound is treated according to the classical principles of freshening and disinfection. Chromic catgut is the best material for tendon sature. The use of breatures should be as limited as possible Occasionally gut saturer may be died The tendon sheath should not be satured The author injects balsam of Peru into the cavity of the tendon shouth and treats the surrounding 3,000 solution frivanol When the timmes with alin has been entured a thout tension be injects staphylobacteriophage under it in the direction of the tendon suture. H. then immobilizes the part is

plaster-of Paris dressing I tendon injuries which are more than dx hours old the wound is not entured. but is freshened and packed with cod liver of vaschne and the part immobilized in plaster-of-Parls splint

(WALTER GRUM) JOHN W BREAVAN, M.D.

Saunders, J. Tr. The Eticlory and Treatment of Clawfoots Report of the Regults in 182 Face Treated by Anterior Tarnel Reservices. Arch S#7 015 10 70

Clay foot is described by the author as experient deformity usually developing during adolescence ith no pparent relation t ser, race, or social status. The typical clawfoot is characterised by examenation of the height of the longitudinal arch shortening of the foot, prominence of the metaternal beads die lar I the tors loss of femility of the foints, and reduction of the treading surface.

When the condition is mild it is usually first decovered when difficulty is experienced in finding comfortable shoes for the child Tender areas on the dorsom of the foot, only intigue, weathern of the ankles, and a kwardness of the gut are frequently noticed. When the deformity is more marked callogities appear, usually under the first and fifth motatarnal bends or as corns on knuckles of harmon tors. These cause great discomfort and in extreme

Gues, pleasation.

The thor discusses the various theories regard ing the cause of cla foot. By some, the conduces has been believed to be of conceptial origin. By Others, it has been attributed to acut Illoenes of Childhood, constriction of the feet during growth. muscular imbalanca, paralysis following pobomyettis, disease of the central pervous system, berecht traums, or infection. Saunders states that most of the Laorea causes are lesloos of the central across Statem such as fraggently occur after pology chits and disturb the synergetic control of muscular tone Rehef may be given in nearly every case by proper atment. The author presents an outline of treat trestment ment hased on the degree of the deformity

In the slight cases, special sloves and exercises are usually sofficient. It the moderate in of execut, lengthening of the calcangos traden, transplantation of the long too extensor tendous t the cuamorm bones and arthrodess of the interphalanceal loss of the first toe are necessary. For marked or severe cases, anterior tamal resection, frequently supplemented by the measures described, is dvocated The author review the results obtained in or feet by this method. After minimal follow-up period of two years the results were excellent m 8, good in 34, fair in 41 and poor in

Subtalar arthrodous is recommended if a correc tion of more than 40 degrees is necessary or if there is a marked calcannel position of the heel the lateral Reporte S Ricce, M D instability

#### FRACTURES AND DISLOCATIONS

Menedaux, G. and Odletta, D. The Infloence of Certain Metale on the Fixation of the Mineral Compenents in Cultures of Occeoblests (In finence de quelques metaux sur la firation des con poses ransersux dans les cultures el estroblistes) Presse med Par Q15 43 5

The phenomena occurring in the healing of fractures include cellular problemation, the formation of an interclular studies and include relation of the thresectivities substance by certain parenal in spaacres the authors have pull ted the results of the " ar experiments on the effect of occuma etals ex the assi to pleno nera. In the sander referred in this article is the regard to the relief of talk or the mation of the interface portors and the is the original and the face of the day therefully and the meth there fletered meta dul cre na cration. The tak point the take culture has been present to de either their of cheare bries from the to sixteen dr sold ere well in the ker plant a sitte or breef it extract to the bapping displaced. Meet it is exhibited normal gro th the cultures vetu ! el do 1 h 2 from solisa him, ruge out the character ties t is colle stuappear. Here it a mentile to the ma in dameier were adile l'o l'a cul it each moul four cultures a 1 executionation are mide After two morels worth the ealt mes are ashed and the reality er or med a concept calls on a black background cit's tran - tell abit. The A loming to that is are dra in

t Noneultheatmple me about the word to stone southers bore established in magnetiate to the formula of established and only calculated and only calculated and only calculated as the other formula of the content.

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2. No 2 he of aluminating on the recommended as all such allows except to clare to the order toxic to the lone cells and the one in him toxic action (duralizmin, in this ination of the mile of

3 Most of the ru cles steels have a harmful action on the cellular growth and mireral treation

D, and the Platinostal less D come to be men. Therefore these three are the only one which he ald be used for the internal treation of tractures.

Bindizs B Site o M D

Housing K. The Role of the Nutrient Arteries of the Long Bones in the Formation of Callus and the Calcification of the Medullary Casity. Le role des art res morror res des sines dare la formation du cal et la calcification de la ca ité medullare). Presse mil Lar 1934 4. 971

In experiments—hich the author carried out on rabbits to ascertain the role of the nutrient arteres in callus formation a defect was made in both femora and the nutrient artery was cut on one side only Roent, enographic and histological studies were then made at weekly intervals up to the eleventh week.

It was found that callus formation proceeded equally on the two sides but the medullary canal showed evidence of greater calcineation on the side on which the nutrient extension was a claimed.

on which the nutrient aftery was sectioned. The author concludes that the displysis of the femur on the side on which the nutrient aftery was cut reacted to trauma normally. He states that this aftery is essential only to maintain hamatopoietic function and plays little or no part in callus formation. However, the fact that its destruction tends

the curvaletica form the negality count, upperly that it is a factor in the pre-entire of aberrang calculation. Bak and Boron S. M.D.

Sever J.W. Non-Union in Fracture of the Shaft of the Humerus J. 100 M. 111, 1015, 104-5-2

from e a tractures or he mobile third of the h ricral shat frequently fail to unite at difference pre-cit ractions problem. The author reports nee ire breetronin own practice then cakes ch toroilntere fast as minilly reported in 1535 It sand the core complete absorption of the heneral shift felto it is a fricture with two sale e quett ciracia es lle secretaris in the Warren Mich at the Hr and Meheal School Inc could case was seen by the author after I'm mg bare he fire a libe a cof il er sire had tailed to e denner. The patient retuich further execution In the last three cauco operation, sas performed by the sal, little is the application of a sliding craft to to tothe oil even noutly late by a tep operation in a net to brocestic periorical guilts vice app ed. He puttent fein ed fartner attempts to cor ect the for un or

In the author's second case there were multiple fractires. About three notificatives the injury a step approximation of the una need humeral fragments, and he in displace the prolong dismobility. A cool of poetare are notified later with the martin of a beef bore created at the object initial graft appeared to result in union after two months but non-union cas present a vecar later. In the third case the author counterark a rial is tibull graft eight norths after the injury Non-union recatted two months later fellowing

smore as physical the spy

The author di cusacs some of the case es of non union. He belie es that in cases uch as those under discussion the only operation probable orth vinle is that adjocated and of ell carned out he Campbed and Hunderson nariely, the application of a major eoronlay graft followed by a unicentify long period of treation to insure union and carry the patient beyond the period of absorption at diposible fracture of the graft. Ho ever, even this procedure is not intallible.

HARRING STILSO M.D.

Rogers, W. A.—The Treatment of Fractures of Vertebral Bodies Uncomplicated by Lesions of the Cotd. 11th Surg. 1935, 30–254

The author reports the findings of a study of the clinical course and early results of recent fractures of vertebral bodies without injury to the cord, the mechanics of the reduction of such fractures by heperextension, and the mechanism of possible injury to the cord during the reduction. This study was made in thirty one consecutive cases seen in the period between 1923 and 1932. Rogers streams the need for early accurate diagnosis and adequate careful roentgenographic examination. From a careful study of the anatomical lindings of Schmorl and his co-workers and from his own experience he concludes

that the nucleus pulposus acts as the fulcrum between vertebra and that the area of molline fielding a line drawn through the poant where the greatest resistive pressure of each interventebral disk fafts on its continuous critebra. For all practical perposes, this ince fails through the notice pulpod sear the deepest point of concavity of the articular surface of the centrum. Extension of the vertebral column therefore exert. Mectasion of the vertebral column therefore exert decompressing force on the portions of the vertebral native to the line of the model pulpod and pressure along these portions and the processing the process

Rogers divides his cases into the following four

r Fractures in which destruction of the disk was slight or absent. Eight (26 per cent) of the cases fell into this group. An excellent reduction was obtained in all

Fractures in which the superior or interior surfaces of the centrum and the settacent intervertebral disk were extensively disorganized Statem (5 per cont) of the cases were of this type. Satisfactory correction was obtained in all.

y. Fractures in which the compression was central rather than anterior or lateral. Two (6 per cent) of the cases were in this group. Little or no decompression could be obtained by extension.

4 Fractures with dislocation of the adjacent vertebra above. Five (6 per cent) of the cases were in this aroun,

In this group.

If during extension, the dislocation is not redoced and the posterior body processes do not lock, future 11 during the posterior body processes do not lock, future 12 during the importance of the siterior body todinal frament as factor in reduction by extension. He believes that complete hypersectation is essential for the best results. He describes his proper extension are those of the siterior of essential for the best results. He describes his proper extension is obtained in short space of time by means of a current frame on adjustable supports. A plaster acket is then applied ithout moving the patient. The whole procedure requires only about an hour and half. A merathetic in necessary but an 'experied. The time of correction was at first member of days, but has been gradually shortened it from fiftees to anyte min ter-

The details of thirty-one review of cases are presented in tables it as found that reductions started within seventiem day after the injury were uniformly successful whereas those started later were process of reduction all of the patients were carefully stated for each near in voluntary numeic action in the lower extremutes, loss of refuses, and twicting suggestive of unpendag injury, it he cord I only one case as there say such manifestation in the contract of the contr

For fixation, either plaster-of Paris shells or jack ets were used. The latter allowed the patient to be ambalatory. Case in hich the fractured vertices lies at the antierior conventy of the space of considered satisfactory for sanishatory treatment. When the fracture is lighter recomben treatment is accessive. The technopse of the application of a pixture is described. The period of satisfaction of a pixture is described. The period of satisfaction is from two to zeros months and is followed by the application of high spings seed buck-bare also maintaining hyperecticasion. The brace is soon summanianing hyperecticasion.

and to corrected by Moopath powers electrons.

Of the mass reviewed, narro ing of the laterer with the mass reviewed, narro ing of the laterer (65 per cent) of the patients returned the scine (65 per cent) of the patients returned to the class like they had been energed before the injury and remained free from palu. Six returned to lighter activities. The details of the cuse of the patients who failed to return to ork are presented at table. The author befores that spinal fusion as soft addicated as routine procedure but is secreastly as fractures with dislocation how adequate currer tion runnot be obtained in a per care of the cases to review complete bridging of boss across the na-

be review complete bridging of bose across the mtervarishmal region occurred without operation.

In summarizing, the author says.

In cases of normit fractures of vertebral bodies.

It is possible to re-establish the mechanics of the back as they were before the injury (of per crat of the cases reviewed).

2 Proposit furture and dislocation are more defi-

 Recent fracture and dislocation are more fullcult to reduce (40 per cent of the cases reviewed)
 Part of this correction is neverly lost as the re-

3 Part of this currection is nearly use as usersalt of gradual narrowing of the injured interestibral dash (da per cent of the cases reviewed). 4 The back is capable of remarkable degree of adaptability it this change (fo per cent of the patients whose cases are reviewed returned to their control of the patients of the patients of the patients whose cases are reviewed returned to

theats whose cases are reviewed returned t ther pre-layary activities after an average of eight and one third mouths and remanned free from symptoms). Ra-organization or union of bose occurred in all of the cases reviewed and in most cases in proba-

all of the cases reviewed and in most cases is procebly fully—dequate after from t — t seven months BARBARA B STIMBON, M.D.

Continden, X. J. and Pelitis, A. M. The Sargical Treatment of Racant Depressed Fractures of the Tiblel Articular Searface (A people of trust count characteristic discretization of tentes d'un platous tibul par enfoncement). Press wiel Par. 031 41 45.

The thors report two cases of depressed fractives of the external coudyle of the this back or treated early by open rechectors with fastion of the depressed fragment in place by bose edges, is the first the approach was extra extractive treatment, it was norma extractive. The motions between the country of the country o

cauon, and renders it possible to reduce the fragment accurately. The use of wedges is of value when the depressed fragment is too small to be held by a screw Early postoperative motion can be uided by

injecting novocain and acetycholine The pathological anatomy, mechanism, and clinical picture of the fractures under consideration are

discussed briefly

The Treatment of Malunion of the Ankle (Du traitment des cals vicieux du cou de-pied) Bull et mem Soc d chirurgiens de Par, Vasmonteil, F

In malunion in the region of the ankle joint the surgeon is trequently presented with a very difficult problem The author believes that in many cases the condition could have been prevented by more adequate reduction at the time of the injury or more careful and prolonged immobilization with frequent checking of the position of the fragments by rountgenography He states that he prefers immobiliza tion of the foot in a slightly varies position rather than the forced varus position advocated by Destot

or the neutral position of Boehler In discussing the pathological changes and operative treatment of malumon of the ankle he leaves out of consideration fractures of the lower shaft and supra articular fractures, all of which he believes should be treated by cuneiform osteotomy He desenbes four modifications of the normal joint which can be caused by malunion (1) modification of the dimensions of the mortise of the joint, (2) modification of direction (valgus or varus deformity of the foot), (3) modification of situation (forward or backward displacement of the foot), and (4) modification of orientation (the internal malleolus in front, the external malleolus carried backward, and the foot deviated outward)

The author next discusses the operative correction of widening of the mortise, malunion in valgus, equinovarus in cases with fracture of the posterior

In cases of widening of the mortise he replaces tibial hp, and talovarus the fibula in its tibial articulation after cleaning out the latter and then fixes the bones in place with

For the correction of malunion, cunciform, oste otomy, astragalectomy, and open reduction with or tho screns without osteosynthesis have been proposed. The author believes that unquestionably the ideal operation is that which replaces the bony elements in their normal position, though this is very difficult in the late cases. He therefore advises open reduction not later than two years after the injury lie states that it is particularly important to clean out the new bone formation to allow the fragments to go back into place If the bone is sufficiently solid, one or two screws may be inserted to maintain the position obtained. In cases complicated by a tibioastragalar ankylosis a complementary astragalec-

Cases of the equinovarus deformity which occurs tomy should be done with fracture of the posterior tibul lip should be treated in the same way as the priceding group, but always with complementary astragalectomy

Simple varus deformity is simply corrected by

For cases of talovarus deformity a complementary cunciform osteotomy astragalictomy with correction of the position is advised In the author's opinion the ideal operation is a double osteotomy with open reduction of the fragments followed by complementary astragalectomy in cases complicated by fracture of the postenor bo

The article is illustrated with diagrams and roentgenograms

# SURGERY OF THE BLOOD AND LIMPH SYSTEMS

Basy L. and Reboul, H. A Critical Study of Arter ty L., and Seboul, H. A Lyttical Mady of Artest of solar pty (Eucle Unique say) arterioral property of a few Sec. and, & clay 925, 6 [Property Bar.] Bad.

Bary and Rebool report the case of a man fifty joint ord app such; that the case of a more ord four years one was award treatment we passenged the control of both arms, especially the right and an alternative house, have been added and index hopers of the state house. The control of the right has a sense, and the state house of the state house. mercation involving the minors and makes angles of the right hand. The radial pulse was easily perrepthe right name in the name passe was castly period.

The condition was thought to be du to a picture. fine Are commune was mought to be un to appearing the injection of com of a first per cent adults of inches into the brachial artery in the hidpital tences) into the fraction aritry in the besteroid from above of the picture arch poorly filled and he some arch production of the arche of the thanks aritimly observed that arche of the market white but those of the arche of the market pictures of the arched archives are also are arched and arched arch thinds or piaces, our most or the mass of the children oblitions of A second arteriogram states. cautrey contrasted A second atteriogram taken eight seconds after the first, without an additional Oast, sections after too seast, attracts as somewhat still cutticity to the sticities to protein becomes outrast in the actioned an important formations. posters department (see arm and hand remarked h. M. a latter of C sposs banded beat the clook with an in few day, the entire arm and hand because comin ter (a) the cuttor arm and using occasion pletely maximised. There was no infection

percept transmisses the series of transmissions are series to a conference of the series of transmissions of tendent tran and been injected into the corts for the study of here ascuran of the abdominal forts in Another eric author the allegace ill effect. Horover, & tage arries of arteriograms have been made in the agle series in acturages in the over make in the authors chalc. The authors found attenography with tenoint of rates is the study of anomalype of attentity oblitered and assertion to determine the extent of the leasure and the efficiency of the collected circulation. The and the changes of the constitution of the property of the pro from sexico or tag todo mace tan, our tress or research disturbance. The authors therefore my vancation community, the number memors and be considered for the present contracting pays should be considered for the present contracting the should be considered for the should be co

Leneut, J. The Duniers of Asteriography (Les due eut, J. I he Dungers et Arteriography (Les des-les are la l'Arteriography). Hail et més. Set nes de

Levent reports the occurrence of serious coass. quences following the falcetion of feachty late the discussions are the marriage of the case of a tracement attery not unteragraphy in the comment child ten year of any ho had Opped i olimana mountain allowing a facture of the homerous Three injections of 6 cm section of the homerous ten of tenerous ere made, bloodly three for look-ten of tenerous ere made, bloodly three his tripiction the hand became blookled and the hand

and forestm cold. These changes were followed for

have recent time. Indee coanges were soles of first presents competition and crancel of the fatted and and family by gaspines which necessitated arm and finally by grapping which normated and amountains with charificiation at the abouter. A study of the ampetated and disclosed old cice. tricial belong in the forcists area uncased out cro-tained belong in the forcists array the sale of and belong the fracture and recent obstrating known score the inscitute and recent continuous among the in the region here the inscition of inschrift above it in the rights — ners the inspection or interest, was made and in the collisional blood (comin. These had caused be hermine and pathological charges in the and or note opinional and particular at the first fine opinion of the common more from that there is not the common opinion of the common opinion of the common opinion opinio characterizate of solumnan contractum. There fore the injections of tenebry and canada free, a tota tos miscrisca or tenencia and cassion and a second, a thrombody of the bracket arrays and had third, becamic grant me of the critics are

The author mater that such a surfect accident had her author mater that soon a source accuration for the first occurred before in his practice at a result of here occasion persay in ma jeaceur as a room to attendancy of the state of the sto and the extent of the arterial obstruction As parts and the extens of the attention controlled for the second for horsess are been success to oversime to receive or the accident in the case he reports he brilles at about he freely discussed in order to determine the handle for arterography and the determination of the Droccopre. Rindfeld, P

ndfeld, P The Bleed Changes in Christian Thrombophishitis and Their Diseasontic Insactions (De Betweendrungs by Lincher Boundard (De Betweendrungs by Lincher Landschaldet and the disposance Between

F on his studies of the blood changes occurring in formulaphiciditie the dather draw the following the following the dather than the following

The changes occurring is the blood in thrombok 1 on thanges occurring to the country a traveler are philodelia, after specifica, and after fractions are positions, since operations and since tractions are on the article, similar but in thrombophicitis they the top a man, manimal that in contrastoparature may are contractoristic and less marked, especially

are any constitutions and an arrangement those in the globula and viscosity.

The blood changes are no lader of the magnitude. tacks of an operation for of the extent of the thousand posses since since majore accompanied operations such as heralationy may be followed by latal thrombods and embolism

blood changes constitutes are taken of complexions Justice the magnitude nor the acture of the and it is recognized all between as add to the

cannot so not recognized in ordered as an account and recognized of beforeing three-board.

A Off dependence of many of the presence spon discount and presence of the presence of the contract of the contrac men introduces organic is given annuous and distributing whether one or the other change is the composition of the blood is of importance for the origin of chrombouls

## BLOOD, TRANSFUSION

Kosdoba, A S The Hæmostatic Properties of the Bone-Blood Mass "Sangos" An Experimental Study (Blutstillende Eigenschaften der Knochenblutmasse "Sangos", Experimentelle Untersuchung) Mill a d Grenzgeb d Med u Chir, 1934, 43 465

While removing bone fragments for transplantation purposes the author observed that the chips mixed with blood possessed hæmostatic properties. To study the hæmostatic action of such chips he carried out a series of experiments in which operations were performed on the vertebral column, skull, and long bones. Bone splinters from the same animal, from another animal of the same species, from an animal of a different species, and even from dead bones were used. In another series, the bone chips were taken from the experimental animal while the blood was from an autogenous, homogenous, or heterogenous source. In further experiments the bone was mixed with blood clots and citrated blood from various sources.

In all of the experiments the bleeding from the bone ceased within from five-tenths of a minute to five minutes after the application of the blood-bone mass, which the author calls "Sangos" Post-operative hæmatomata were not seen. The hæmo-static action of the bone-blood mass is certainly not entirely mechanical, the large quantity of throm-bokinase present probably also plays a rôle. The author proposes to study the hæmostatic action of the bone blood mass in operations not performed on bones. (Zwicker) Leo M. Zimmerman, M.D.

Bagdasarov, A The Problem of Blood Transfusion (Das Problem der Bluttransfusion) Verhandl d 22 Kong d Chir d U d S S R, Moscow, 1934, p 115

The Central Institute for Blood Transfusion in Moscow strongly recommends the citrate method. As a method for use in large numbers of cases, direct transfusion has great disadvantages as the location of donors and recipients is difficult to control under war conditions, the complicated apparatus requires assistants, and the use of this method excludes the use of postmortem blood Among 1,700 cases of the most varied diseases and forms of anæmia in which blood transfusion by the citrate

method was done there was none in which an injurious effect was noted. The Institute has developed a very simple apparatus for the transfusion of citrated blood which can be used even under wartime conditions. In the cases reviewed the donors bore the loss of blood very well. The blood picture was fully restored to normal after from thirty to thirty-five days. Preservation of the blood with glucose showed an increase in the lactic-acid content and therefore was discontinued.

The preserving fluid used at the Institute contains sodium chloride, 7 o gm., potassium chloride, 0 2 gm., magnesium sulphate, 0.4 gm, and sodium citrate 5 o gm per liter of water. This solution has the advantage of great stability of its alkaline reaction. The resistance of the erythrocytes decreases only slightly. The leucocytes are destroyed in the first few days. A good therapeutic effect can be obtained even after three weeks of preservation. A slight reaction in occasional cases does not restrict the indications. Transportation of the preserved blood for considerable distances did not cause any serious damage to it

For distant transportation blood plasma is quite suitable. The questions of plasma transfusion and plasma preservation are being investigated.

The investigations of Samov and the first clinical results of Sakajan placed the transfusion of cadaver blood on a firm basis. Subsequent investigations have established the practical importance of this problem.

Spasokukockij experimented with the infusion of eclamptic blood with good results. The author rejects the idea of rejuvenation by blood transfusion as suggested by Bogdanov in his theory of physiological collectivism and a copulation or conjugation of the cellular elements of the donor with those of the recipient. He maintains that the therapeutic effect of blood transfusion depends on two factors, substitution and stimulation.

The Institute has a number of branches in various states of the Soviet Union which are affiliated with larger surgical divisions. The purpose of these branches is to create propaganda for blood transfusion, to teach it to greater numbers of physicians, and to perform it scientifically in cases in which it is indicated

(Eugen Banner Voict) Philip Shapiro, M D

#### SURGICAL TECHNIOUE

#### OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Hyman, H. T. and Touroff, A. S. W. Therapeutics of the Intravenous Drip Further Observations.

J Am. M Att 035 04 446

thors review recent series of 1,000 consecutive experiences t the Mount Sines Housetel New York City with the slow continuous intra venous infusion (" drip") for the purpose of demonstrating the numerous indications for the use of this infusion and its effectiveness as a therapeutic measure in surgical and medical cases

The theraneutic indications included () the treatment of hemorrhage, ( ) the treatment of shock, (1) the treatment of infectious medical and surgical diseases, (4) the prevention of complications following extensive or shock-producing surgical procedures, (4) the prophylaxis and treatment of thyrotoxic cruers, (6) the alleviation of postoperative complications such as vomiting, tiens, gastric diletation, oligaria, and anuris (7) the treatment of various metabolic and toric conditions such as the alimentary toxicous of lafancy dehydration from uncontrollable vocating or darrhose, urinary suppression, and disbetic ketosis, and (6) the treat ment of exogenous poisoning.

As prophylactic and appropriate measure in various surrical conditions, the drip is usually started befor the nations comes t the operating room and is continued during and for varying periods of time after the operation. When necessary, transferson is easily performed by adding citrated blood t the solution. In the surgery of diabetes, a liberal supply f fluid, dettrose, and moulin can be readily admin-

istered

The direct introduction of drags and biological preparations in the treatment of postoperati complications is accomplished easily by amply adding them to the sol too. Thus, in shock or collapse, ephedrin epinephrin was added I postoperative tiens, priressin in acidona, alkali with gi cose and insulm in sepais, whole blood (non-specific) in cartain types of separa, specific serum and in theretoxic storm, lodida

In medical cases the drip was employed in the treatment of axotemia w th nephritis, dehydration, hemorrhagic diseases, and chemical possoning Speculc sera (pneumococcus, tetamus, and diphtheria) could be administered in doses of from 200,000 t 100,000 units daily as required thout causing an nadra reaction in the cases of a patients like s) philis 4 gm of neo rephenamin were given in ti days with good effect

The drips were maintained for from several hours t t enty four days. Chills or febrile reactions occurred comparatively seldom and in practically

every instance are due to technical errors. At the Mount Sinal Hospital the intravenous method has practically replaced the subcutaneous method of introducing fulds. The former has the advantages of more certain absorption, greater adaptability less disconfort t the patient, and the possibility of introducing drugs and blood directly into the corn. lation At the scorningly slow rate of or 3 cms per minute, the drip will introduce from 1500 to a ooo cm. of fluid daily and by sample, storie technical procedure the problem of antition and the introduction of finid, salt, drugs, blood, and serves fa nolveri.

Warthen, IL J Mandve Intravanous Injections As Experimental Study Arcs Surg one to

The experiments reported are carried out on does The amount of fluid injected ranged from er 1 304 cm per bilogram of body cheat and the wrate amount injected for the catire study as I A cra per informam of body maht. The versus deration of the infusions was twenty four minutes The author a findings and conclusions are suresrized as follows.

Large amounts of the solutions amally cut pleyed for infrasons may be injected intravenously at does without causing death or evidence of car diac embarramment. In actions of excreave a mounts of find result in cerebral or pulmonary ordered.

The most inversible chemical charges in the

blood occur with infrasons of isotomic sulations of dextrose and sodium chlorids. A 5 per cant solution of doutrose causes slightly more desirable changes 7 per cent solution of sodrum chloride Infertions of hypertonic solutions of dextrose and acdium chloride cause distinctly unfavorable changes. y The blood sugar value racreases following in 7 per cent sodium chlorida solution

fumons of and decreases following infrasous of hypertosec acctium chloride solution 4 Large infusions of dextross and of sodmin

chloride solutions came little if any change in the fraghty of the red blood cells

5 There is marked acceleration of the pulse rate during intravenous infusions

 The intravenous injection of fluids results in an naitual rose in the arternal blood pressure. Dannag infrance of rectour solutions this is followed by secondary fall to or shightly below the pre section level. During infusions of hypertonic solutions the secondary fall is diminished or beent. marked increase in the venous

7 There is persoure during large intravenous infusions 3 D uresis is most marked following infusions of

s per cant dextross solution

of the subcutaneous tissue does not occur folloring the rapid intravenous injection of large amounts of fluid. (Edema of the wall of the stomach and of the intestine associated with fluid in the gastro-intestinal tract and the peritoneal cavity occurs following large intravenous infusions.)

to In dogs, the intravenous infusion of a 10 per

cent dextrose solution is often fatal.

SAMUEL KARN M D

## Davies G k S Pulmonary Embolism Med J lastralia, 1935, 1-171

The possible presence of a pulmonary embolus should always be considered at postmortem examination. Refore the heart or lungs are removed an incision should be made into the right auricle and the main branches of the pulmonary arter. In removal of the lungs or heart there is danger of losing a pilmonary embolus. The embolic blood clot may be found extending from the right auricle into the main stem of the pulmonary artery or blocking the artery at its bifurcation or occluding only one main branch of the artery, either the right or left.

The clot is formed in either a femoral or a saphenous vein, never in the pulmonary artery. Its diameter is smaller than the caliber of the vessel it obstructs. The occlusion is caused by continual folding of the embolus upon itself until the obstruction of the lumen of the vessel is complete. Factors involved in the development of embolism are (1) the rate of the blood flow, (2) the coagulability of the blood, (3) pathological changes in the vessel wall (4) the patient's age, (5) the condition of the heart (0) the presence of an abdominal incision, and (7) confine

ment to bed Ischoff has shown that eddies formed in a slowed blood stream start the process of blood clot forma tion. The thrombs are made up of three parts (r) a thin white laver, which is the first laver formed (2) a thicker nuxed layer made up of white and red layers, and (3) a red layer which forms the main bulk of the thrombus Microscopic examination of the white part of the clot in relation to the vessel shows that it is made up of parallel limella which radiate obliquely from the vessel wall. The markings of Zahn are white ridges extending from the white layer of the clot through the mixed liver lamelly and the markings of Zahn are made up mainly of blood platelets deposited by a slowed blood the im and built up in parallel livers. This process continues until the white part or clot occli des the cin. He red part of the elot consisting of red blood cell and abrin is then formed and added to the the red liver is more compact and thite part nimer than the usual postmortem clut

In the cases received by the nution the medical explanments of the history was highest in the sixth disadent fits that it is also the case does not contribute on particular influence on the source for the history was anterioral don't all neighborst and the two transfer that it is the taster for many of the depth and the case of the contribute of the all the all the and the and the all the all the and the all th

necessary aid in assisting the return flow of blood from the extremities and abdomen to the heart. In cases in which an incision has been made in the anterior abdominal wall the average age of death from pulmonary embolus is forty six and a half years whereas in cases in which an incision has been made elsewhere it is sixty-four and seven tenths years.

After a surgical operation there is a definite marked rise in the number of blood platelets. This is demonstrable on the sixth day. The maximum is reached on the tenth day. This increase may therefore be an important factor in venous thrombosis.

In the cases studied, the author was unable to demonstrate histological changes in the vessel wall where the thrombus formed Incemia and cachevia may alter the character of the vascular endothelium, but there is no exact method of estimating their The majority of the author's cases of pulmonary embolism showed no evidence of sepsis or infection. If thrombosis occurs in such cases the thrombi appear to be firmly attached to the vessel wall and are less likely to break off. Phlebitis is therefore rarely found in cases of embolism. Time appears to be of no importance as embolism has occurred in the author's cases on the day of the operation and as lite as the eleventh day after the BENJAMIA G. P. SHAFIROFF, M.D. operation

# ANTISEPTIC SURGERY, TREATMENT OF WOUNDS AND INFECTIONS

Firor, W. B.—The Roentgen I reatment of Carbunches 411 J. Koeniger 4, 1935, 33-71

The author believes that rountgen irradiation is not used in the treatment of carbuncles nearly as frequently as its value warrants. If briefly reviews the reports on this treatment made by others and gives his own experience with it in fifty six cases during the past three years.

In the inajority of his cases a small metsion of establish drainage was necessary in addition to the irradiation but not infrequently the lesion opened spontaneously drained treely, and healed normally uter roentgen irradiation alone.

In the usual course of events an increase in the pain and temperature occurs from two to three hours after the treatment. This is followed by marked relief of the pain vithin a few hours and disappearance of the induration. After from twenty four to forty eight hours the le ion appears to be sharply localized it drains through a single opering and general subjects e improvement is noted. The acute influence of the less on usually subjects entirely the alout two weeks, and the car to suc tormation is minimal.

In the technique well he the author from 100 to 250 r units of moderately penetrating rais are employed orthor sufficial aluminariathers depending apout the depth of the lesson or its rearres to inscending a area. The teatment of ull before an areas areas the control before say a try in has a circle with a control action, it alices a control action.

The mechanism of production of the beneficial changes within inflammatory areas has not been definitely ascertained, but the evidence suggests that lymphocytic destruction is factor in the early defense reaction. Anouse Harrmo, M D

#### AN ASTRESTA

#### ANASTHESI

Pazzagli, R.: The Behavior of Certain Referes of Periodesi and Articular Origin in Various Types of Surgical Annactions (Sel comportaments di sicual infessi de engine periodes ed articulars in van tipi di assetsea chrurpica). Spermentale, 204, 25 dg.

Orthopolisas as fullar with the fact that duties operations have been on the large fedia suspitants above the large fedia suspitants above disagrated deteriors from 6 the same patients above disagrated deteriors from 6 the same and conditions manifested by cardiac weathers and slow irregular and susperficial breathing. The tacket of even a deeply anneathetic patient expresses suffering. These referens, which coincide with the opened, are not generally most though for treatness on accordance or embedded or plant and personally have not accordance to the contract of the

Pargagli studied the blood pressure and respiraton of forty four dogs and rabbits during operations on the bones and joints (periostictomy opening of the meduliary canal, and opening of various joints) under amendments of different types (inhalation, rectal, intravenous, infiltration, and nerve blocking) All of the animals except those in which the angethetic was injected into the norve trunk or the folat capsule showed transitory drop in the blood pressure batever the anesthetic used and even in deep narcous. The blood pressure reached its lowest point, which in some instances amounted to a fall of from 50 to 60 mm. Hg, in a period of 6 or 7 pulsations after the represent of stimulation and returned to normal after from \$ to so pulsations The intensity of the reaction varied according to the amesthetic and the site and nature of the operation, I according to the number of nerve terminals effected and the strength and duration of the stimulus. It lacreased in the following order opening of the medullary canal, incision of the periosteum, arthrot omy on the knee, arthrotomy on the hip, and opera tions involving gra e traumatism to articular sur faces. The respiration was all ays less affected than the blood pressure

Inhibition narrosis, even when peaked to the limit of safety usually produced alghirs effects than intrivesous or indiffration anesthesa. The degree of hypotension was invested proportional to the narrosinang property of the drug. Elsey chloroide produced the greatest conflictions of blood pressure, chloroform the smallest, while the effect of ether was internated in the results of the safety of ether was the made of the results types of indiffration anesthetics caused turple and prolonged oscillations of blood pressure. The constancy of these phenomena demonstrate that after the other rafares (cuttaenous sectior and viscoral) have been abolished by an assistated, octo-articular refers variations of blood persons attl persist. The depth of assistates has only quantitative fadicines on them. The attention arrives the property of the p

t. Interference with the efferent path by section of the wagi or their functional interruption by general stropialisation

a Pharmacological blocking of the afferent nath

by a. Amenthetising the site of origin of the refer.

Injection of novocain beneath the perfortene or into the joint capsule abolishes the roller.

b. Blocking the nerve treaks scoppling the street trees. In the experiences these procedures return revenue to the refer or reduced it to the additions. In the uthor' opinion his findings justify the increased favor with which labeletic nearesthese has been reparted in recent year. In bose and foliat correctly published association of the street the street the street of the control of the c

The article has a babliography
L. E. Mosse, M.D.

North, J. P. The Use and Abuse of Spinel Assesthesia. Ass. Surg. 915, 52 703.

In determining the advantages and disadvantages of spinal unesthods in a gi en case the following

four questions must be answered

Is full mucular relaxation essential?

 Is to margin reagano menum.
 Does the condition of the patient require his tissues to be spared the toxic effect of other ethylese, or chicologue.

3. Are there definite contra-indications to the use of spinal ansathesis?

4 Does the operation justify assumption of the risk associated with the induction of sprual anesthe-

Full muscular relaxation is necessary in cases of early intestinal obstruction in which extensive exploration as required, cause of perforations of vacers, large herma, disphragmatic herma, and condition demanding gampionectionsy or other deep operative work, and certain cases of fracture

In advanced beliary discuse, disbetts, and scute or chronic respiratory discuss it is important to previous a toric effect from the anesthetic agent and gurit the respiratory tract against britation. Pre-crising respiratory tract disease must not be confused with postoperative polimonary complications.

Because of its tendency to lower the blood pressure spinal anesthesia se undescrable in cases in which sudden lowering of blood pressure may be harmful

## PHYSICOCHEMICAL METHODS IN SURGERY

#### ROBSTGENOLOGY

8ch bert, E. von. Three Years Preliminary Experience in the Treatment of Cancer with Extremely Hard Resentiem Rev Ordinaries described in the Cartesian Cardenia and Cartesian Cardenia Cartesian Land Cardenia Cardenia

After three years expenence with the samme ray apparatus von Schubert reports that it is technically perfect. From the economic point of view he beheres that the cost of operation, though high is bearable. The renewal of the tubes is especially expensive as tube lasts only about three hundred and fifty hours and it costs RM (about \$680 co) The t be gives off only from t to 4 per minute. Homogeneous irradiation of the privia may be obtained by using t large fields (177 c ac cm ) By spreading the treatments over period of three weeks, dosego of 2,000 per field may be given. In treatment by measure irradiation which is given in two days because of the small doses. 1 500 per field may be administered. Beginning epidermitis usually heals without reaction is from four to six weeks. When the rounteen irradiation is to be combined with radium breaduation (from a cont 4000 mgm hrs) the blood picture should be allowed to return to normal after the first treatment (roentgen or radium irradiation) before the second treatment in because

In irradiating the every of the white mouse with altra-hard rays was Schwhert was unable to deter mine any distinct biological effect. On the other hand, Stubbe observed doubling of the rate of m tation of the anaptragon after irradiation of its pollen with rays produced by from 5 to 75 km.

It is an yet impossible i form definite options at the effectiveness of the ultra hard rays because only very advanced cases have been treated by this form of irradiation, the period of observation has been too short, all uniform irradiation has been prove, and the cross-fire method, at it is greater possibilities for sparing the healthy theses, has not been attempted.

(Westerstein) Josep W Brewner, M.D.

Martin, H. E. The Fractional or Divisio Dose Method of External Irradiation in the Trust ment of Cancer of the Pharyus, Touli, Laryus, and Parament Simuse. Adv reduct 935, 16 1.

The essential principles of the Irradiation method ratios that an attempt it exact duplication of Contard treveness and discussed. The author Contard treatment factors and technique is probley in the recessory nor advisable sizes identical equipment is seldom willeble. The universal zero of the divided-dose method irradiation therapy

as developed by Coutard has undoubtedly been Andewed by attempts at exact duplication of Coutard' technique and disregard of the logical application of the more important general principles

The author gives detailed decoptons of the techniques and treatment factor used is the Hard and North Services of the Memorial Hospital, North City indicating 103. With the use of the drived done principle, over 100 cases of phanyagest and lary agest cancer have been treated with X rs. at 200 km X rs.

The types of cases treated, the various treatment factors, and the technique of treatment in individual cases are discussed in detail, and the results in 10 cases treated during the years 93 and 93 are presented and analyzed.

Misocher G. Experimental Studies on Animals With Regard to the Influence of Fractioning on the End-Resolts (Terespersonatelle Unteractuages suber den Enalam der Fraktionserving auf den Spectfellt). Aufe nalad 925, 6 p.

The problem of fractional resultant irradative was studied experimentally on rabbat sun lens the action was judged excitaining by the secreciary effect (the condition after observation for from one to four year. The critical of the effect were thresholds for permanent heldness, strophy necross, and brometraciate.

In the preference is indicate that the increase in these tolerance and the fractioning bear relation to one another which can be demonstrated graphically. On account of the present powers tender to barrease the total desage still further is fractional receipts in transment, the author concludes that the values referable t secondary effects in azimals above cause for settloor apprehensions.

Martin, J. M. and Martin, C. L. Modified "Contrard" Rountien Therapy. J. Am. M. Au., 215, 224, 605.

The thorn trace the progress of high bitters over the progress of high bitters of the progress of the progress

Three six hundred roentgens divided into twelve equal parts covering a period of thirteen days were administered to the tumor and surrounding area. The skin became red and showed marked desquentation but no ulceration. The tumor disappeared rapidly, leaving only a clean healing ulcer about 34 in in diameter. The results indicated that the dosage was correct.

As the authors have used this modified technique for only a little more than a year, they are unable to present statistical data. They have employed it in twenty five cases most of which were inoperable. The occurrence of improvement in practically every case seemed to justify the temporary discomfort produced. The tumors included careinomata of the cervix, ovary, breast, rectum, mouth, phary nx liver and lary nx and a radioresistant ly mphosarcoma of the mediastinum. Tumors of the phary nx responded miraculously. The authors believe that their modified Coutard technique is as efficient as the French procedure.

#### MISCELLANEOUS

Turrell W J Eldinow, A., Wilson, J., Woods, R S., and Others Discussion on Short-Wave Diathermy Proc Roy See Med Lond 1935 18 301

TURRELL claims that the thermal action of short wave therapy does not account for the results obtained with this treatment. He suggests that many of the results can be explained better by the discriptive and dispersive action of the impact of the electromagnetic vibrations. These disruptive and dispersive effects will be greatest where the conductivity of the tissues is low, as in bones and fat, and it is in these regions that the therapeutic action of the currents is most obvious. If effects comparable to those obtained in the subcutaneous area were obtained in the deeper tissues and organs, the application of deep wave therapy would be attended by serious risk.

EIDINOW calls attention to the claim that there are marked differences between the biological action of the diathermy current and that of the ultra short high frequency current. He cites the work of various investigators, some of whom maintain that ultra short waves have a specific biological action apart from heat production, whereas others attribute the whole effect of such waves to heat action. He re-

ports investigations of his own in which he found that bacteria remained undamaged by lethal doses of ultra short waves and blood showed no change in fragility, sedimentation rate, or bactericidal power tollowing exposure to ultra short waves in vitro. He concludes that the effect of ultra short waves is a coagulative increosis and extreme vasodilatation, which is similar to the effect of diathermy high-frequency currents of about 300 meters.

Wilson disagrees with some of Turrell's theories, particularly those relative to the pounding and disruptive action" of short waves. She believes there is no disruption of atoms by a current of displacement, that the effect is a vibration of every electron in each atom of every capacity branch traversed by the lines of force. She describes various types of machines used in short wave therapy and expresses a preference for those of the valve type. She calls attention to the fundamental differences between long wave diathermy, and short-wave therapy.

Woods states that there appears to be ample experimental and clinical evidence that the effects of short wave therapy are not confined to superficial tissues. It is possible to eliminate most of the effects on these by varying the wave length, although knowledge of the relationship between the depth of the effect and the conditions of exposure is still very incomplete.

WEBSTER discusses especially the clinical application of short wave therapy. Most of his cases were of the librositis lumbago sciaticatype. All responded well after only a few treatments. A small group of painful malignant recurrences seemed to respond more favorably to combined short wave diathermy and roentgen therapy than to roentgen therapy alone.

Russell discusses burns in short wave therapy. He states that the accumulation of moisture from sweat under the electrodes or contact of the cables with the skin may be responsible for burns, but can be easily avoided by precautionary measures. Among the conditions which he has been able to influence favorably by ultra short-wave therapy are boils, abscesses, carbuncles, lymphadenitis, tinnitus aurium, prostatitis, osteomyelitis, septic acne, asthma, osteo-arthritis, gonococcal arthritis, sprains, contusions, pneumonia, and beginning colds

ADOLPH HARTUNG, M D

#### MISCELLANEOUS

#### CLINICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

O Shauthnessy L. and Sioms, D. The Richogy of Traumatic Shock. Brit. J. Surg. 935 559

The a there distinguish it unsute about from such resulting from Interisting obstruction, general peritorities, and extreat we have of the slafe. Following review of the septemental lewedgelation of opinions of others: (the report it transatic shock they report the sinchings of their experimental studies. In the latter, block were carried out on no cuts amendmentally by the interaction of opinions of the service of the ser

of gm of chlorulosis per kilogram of body weight in c.m. of water the halood pressure as reconstruction of a carrolled cannota and mercury associated the problem of a carrolled cannota and mercury associated. Turns was indicated by so blos with keavy from bar on a high. While the skila remained intact, the found was broken and stoosy revealed coordinate injury to the muscles of the high coordinate injury to the muscles of the high manufactured in the opportunity of the control of t

The argenments were divided into groups. In the first group the attempt we made I determine whether to rice were the extended in the area of trauma I some of the attempts occlaimed of the vector return as obtained by legation of the femoral vers and its intrinstation in the group, the external, internal, and common lifes withing in the inferior vers a very and of the same than the property of the property of the same than the state of the programs of the protain of the same plant of the first way for sold presence, whereas traums plant of the limb was followed to

rapid fall in the blood pressure and the development of sever shock a than early fatal termination In another group of animals perfusion of the trauma tized limb as done. This failed to elicit any evi dence of the presence in the traumatized tissue of vasodilator substances which might be responsible for reneral vascular collarse or shock. In third group of animals a search was made for diffusible products in the systemic circulation by method based on vividualysis. The results appeared to rule causal relationship to the development of traumatic shock of humoral gency produced either locally in the area of traums or more remotely They engented that the circulating toxin may be of such a complex molecula structure that the meapsble of dialysis across collection membrance in fourth group of enimals the pathological part re of histamin shock and tranmatic shock was studied A distinct difference was noted in the postmortem findings in the animals dying after the administra tion of histamia and those dying from transmatic shock. After histantia poisoning there are should fifture comparison of the instants. The cit surface of the fiver and kidney a bied reachly and the onesam as enganged and presented large vessels shick ere visible macroscopacilly in the first greaks. The presented an instance ordens, and the spiers was generally blue and small. The large processed with dark blood, and the beart as a filled. In the animals dying from traumate shock all of the visitors, but expectedly the interestions and countries, were pasts. The fiver and kidney did not below a study has cut, of then was no ordinas of their distributions are generally pasts, and the heart contained the process of the countries of the countries.

In the second group of the experimental investigathose reported the fluid loss in the area of trauma was studied. In series of a transacticed azimals used as executods the a grage fluid loss into the tranmatissed limb was found to be 16 per cent of the cal culated blood. The thors state that after cry severe traums the fluid loss alone is sufficient to explain the occurrence of shock, but the fact that the amount of fined lost lat the transpanced theres does not bear direct relation to the length of per vival suggests the participation of some other factor Many investigators have show that occlusion of the main vends of limb prevents the development of traumatic abook. Complete occlusion of the blood supply t himb can be obtained only by lighting the abdominal acres, the inclambar artery the maids sacral artery the external illac artery the profunds femoris artery and the femoral artery and its branches in the groin Complete obstruction of the enous return is achieved only by Rentica of the inferior ens cave and the veins corresponding to the arteries mentioned. The athors refer to himb with such obstruction as an anguale hmb. They found that traums to an anemic limb had no marked effect on the blood pressure although the azimals ore under observation for many hours. As the nervous paths in such limb are intact, this observation has been cited as evidence that shock is due entirely to fuld lose However the authors raise the question

bether such as a mermic finels in not in fact the anotheries. Since, as Bilack suggested, the sudden conset of shock the removal of toursquest from a womaded him may be attributed to the sudden loss of fluid, they belaw it possible also that the sudding restoration of blood supply may release a food of nervous impulses. In support of this theory they cut the following superment. After preparation of cut in the unual w y so as to resider any think they have been supply and the suppl

penpheral ends of the divided artery and vein of the former The anæmic hmb was then traumatized as in the other experiments Death occurred about two Is there was no evidence of an incihours later dental cause of death, the authors believe it permissible to assume that nerve impulses from the trauma tized area were responsible for the fatal termin ition

In the third group of their investigations the authors studied the area of trauma as a source of nervous impulses. The relation of the nervous sys tem to the syndrome of traumatic shock was investigated by (1) section of the nerves to the limb, (2) section of the spinal cord (3) section and destruction of the spinal cord, and (4) the induction of spinal anasthesia. When an attempt was made to exclude the nervous discharge from the area of trauma, the syndrome was less severe than in the control group In the control group only 1 cut survived for as long as six bours. The average survival period was three hours and twelve minutes Lyery animal showed an appreciable drop in the blood pressure at the end of the first hour after the trauma However, following nerve section, most of them survived so long that it was impracticable to follow them all to death. In the cases of those which were under observation until death the average survival time was five hours and

hfty four minutes The authors conclude that a toxamia due to the elaboration of histamin or some other depressor sub stance formed in the traumatized area plays no part in the syndrome of traumatic shock. They helieve that the chief etiological factors are local fluid loss and the discharge of nociceptive nervous stimuli The latter is of greater importance than the former Attempts to compensate for fluid loss hy intravenous therapy are largely ineffective in traumatic shock Apart from the perfunctory administration of mor phine, too httle attention has been paid to the nervous aspects of the condition. The hody possesses ample reserves of fluid Its failure to draw on these reserves is due to the continuance of ahnormal nerv ous impulses. The authors suggest that the nocicuptive influences might be controlled by the induction of spinal anæsthesia or the injection of a local anæs thetie into the traumatized area

ALTON OCHSNER, M D

Leriche, R, and Lucinesco, E Heterotopic Osteogenesis Obtained with the Aid of Grafts of Bladder Mucosa in the Muscles or Grafts of Aponeurosis in the Bladder (De l'ostcogenese hétérotopique obtenue à l'aide de gresses dans les muscles d'un lambeau de muqueuse visicale ou de greffes d'aponévrose dans la vessie) Presse med, Par, 1935, 43 137

In an effort to study osteogenesis without the action of periosteum, endosteum, or osteoblasts, the authors repeated the experiments of Neuhoff and

Huggins on seventeen days In two animals a strip of fascia was grafted in the bladder wall after ablation of a fragment of the serosa and museularis, the mucosa being left intact No ossification occurred in the grafts

In five animals a strip of fascia taken from the outer surface of the thigh was grafted in the bladder wall after a defect measuring 2 by 4 cm in diameter which included the mucosa had been created. In four of the animals ossification of the transplant resulted. In the fifth, the graft was lost

In eight animals strips of bladder mucosa were grafted in different muscles, in muscle septa, and in cellular subcutaneous tissue Ossification resulted in seven In the eighth, suppuration occurred and the

graft was chminated

In two animals grafts of the bladder wall deprived of mucosa were used. No ossification was obtained

In the experiments in which grafts of bladder muco-a were implanted in muscle, studies were made from the tirst to the one bundred and thirtieth day In the beginning the transplanted mucosal cells multiplied rapidly, the epitbelium forming small nodules Soon there appeared in the center of each of the nodules a small cyst filled with a bloody fluid which later became brownish and viscid. Around these eysts an active connective tissue reaction took place with the formation of numerous young fibroblasts and blood vessels By the end of from fifteen to twenty days the connective tissue had assumed a collaginous appearance and calcium had begun to appear By about the thirtieth day ossification was quite definite. In several instances the pericystic tissue was transformed into cartilage which later was invaded by bone similar to the process seen in normal cartilaginous ossification Ossification continued until a true bony tube was formed. In the interior of the space limited by bony trabeculæ, first small sinusoidal vessels and later nucleated red cells, megakaryocytes, and other cells typical of normal bone marrow appeared \round this osseous tube there developed a layer of fibrous tissue resembling periosteum in appearance and giving the graft the picture of normal hone

Analysis of the liquid in the cysts showed that in the first few days the calcium content was similar to that in normal blood serum but later, as the fluid became more concentrated, the calcium content increased. In the tissues surrounding the cysts the calcium content was found to he from two to three times greater than that in the blood serum

The authors report also two experiments on dogs in which segments of the fibula were removed and transplants of bladder mucosa were made Bony continuity was established at the end of two and NATHAN A WOMACK, M D a half months

Jung, A and Cemil, S Experiments on Heterotopie Ossification in the Spieen (Quelques expé riences sur l'ossification hétérotopique dans la rate) Presse med , Par , 1935, 43 40

The authors have confirmed the observations of others regarding the heteroplastic formation of hone in the spleen under experimental conditions. They found, for instance, that when the mueous membrane of the urmary hladder is transplanted into the spleen with a strip of aponeurosis, bone is formed after one or two months in the connective thanes moull m in contact with the bladder murcas that has profil erated with the formation of cysts. They have found also, as has been noted by others, that the transplantation of either the bladder success or the sponeurous is also int the spicent does not lead to new bose formation. When the peneurous transplantated with the bladder murcas as a first hotsel the bose formation, as the contact when the second of the spicents of the spicents was transplanted. It is besided the different procurages as a transplanted in the based formation did not occur. The authors contend that the smoot to cluckium in the liquid of the young cysts is the sense as that to the blood of the animal.

N TANK 4 WOMER, M D

Nicholson, G. W. Studies on Tumor Formation. VV AF tiform Overtan Teratoma. Gay' Hesp. Rep. Lond. 934, 84, 359

The thor presents a detailed description and an attempt at analysis of a musuum specimen of letiform varian teratoms that was farst described by Skattock in qu. I the conference of specimen was described as the truth of exemply matrixwoman with volum, permeal riphs, public hadrone pper and two symmetrical lener extremities, recommentary extending commence of the commence of the commentary extending commence of the presentation of the of presentation of

pper ad two symmetrical lower extremities, redmentary vertebral column, and embonic ex sty containing a loop of intestine. In the examination reported feer the specimen has been treated simply as an unknown object composed of bunns flesh. The following its counsions were in the mind of

the investigator during the study of this tumor is fecus, that is, tumor of a business the teratoms organism Is it merely fouldern? Before proceeding with an analysis of the t mor trasue in an ttempt t answer these q estions the thor enumerates some f the theories of teratorcuess I flombling to explain the problem as one of parthenogenesis he points out that of the multitudes of overien and solld teratomata that have been well described, only fifteen resembled the human form closely enough t he called fetiform and of the latter only two contained bones that could be regarded reasonably as vertebra: If teratomata represent parthenogenetic ove a would expect to find as general rule some sure traces of membranes and placents, of longtudinal axis, of metamenic segmentation, and of orderly delamination of the germinal layers. In the face of authority we cannot very well believe that an ovarian teratoms represents either a parthesogenetic or other ttempt at embry formation

The assumption of the incestions fertilization of an ora of the host by her father at the time or as consequence of her wn conception were better never

What are the claims of the biastoners theory which holds the field today. Cell resis in the form of cressory organs, dislocations, and these milermations are common Invariably they are either fully differentiated or at least, show every sign of every tempt at physiological differentiation possible in their strings location and moder trying con-

ditions. The anthor has pever found pendagence of cell rests i the emberopic state klorrover the transplantation experiments of Spemann, performed with dialocated blastomeres, show that the fate of the blastomeres is determined by the position they happen t occupy in the body \\ hen a blastomere is disjocated late the region of the development new nephros it takes its physiological share in the forms tion of that organ and of the wolften duct. The evidence werns to matrix the inference that if his wamere is displaced into the region of a developer overs it ill take part in the formation of the cells of that organ. That is to say it may reasonably be assumed to produce normal ovarian strong, blood essels, ovarian follocies, and normal ovarian or There is nothing to expent that it ill them the formation of a second individual. Letter of even the most rudimentary fersionistous sort. The evidence of modern blokery does not support the notion that displaced blastomere ill produce an ovarsas fets-

form dermoid or teratoma adultura. The uthor believes that the development of our knowledge regarding the cause I teratomate remales for the future. U til mick development occurs we must rest montent with the idea that the germ or mother-cell aid be shown to be sther cell or group of cells ith an antecedent anomaly of composition or location, or ( ) sormal tell or group of normal tells reacting absormally in abnormal conditions. In the study herea ith reported the anthor attempted chiefy to determine bethe or not teratomata, the generic and development of birk are panoun represent tiempts at the formstion of human organisms. He therefore feels pestified in denying attributes of ferms to the object desembed as he found no internal evidence of ferformity. The object presents no traces of membernes nor of placestation. Most important is the demonstration that the central axial skrieton is not a ertained skeleton mace t is built of centers of our

fication in a single unsegmented cartilage. The object is distinguished from ordinary der mords and amorphous teratomata chiefly by its marked balateral symmetry of outer form and more structure. The anthor interprets this phenomenon in terms of faure of equilibrium know as an "caduloid as the physiological reaction of find at semi fluid matter to elementary physical principles of fluid pressure. There is also the action of physical stimuli is the form of the appendages, particularly the paired so-called to er extremites Bay and the effects of moulding by fluid pressure, these appeal ages present no characteristics, gross or histological, of somatic lower hinds. The entaneous falcitorin ridge but rea the roots of the subspicel appendages is a thout homologue in the human body. It is to be interpreted as local reaction to physical conditions. Its presence strengthens the view of physical cause tion of the outer form of the dermond mpple and its ppendages and much of its inner structure. The vulva represents an orifica peculiar to dermode generally know as the "mouth and is likeset

homologue in the human body No pubic region is found, hence there is no evidence for pubic hair and sex, and there is no evidence of sexual maturity of the dermoid nipple. There are no signs of present development, and the tissues are as fully differentiated as those of an adult human being. The name "fetus" is quite inapplicable to the object. The object presents no more internal evidence of a human body than the most amorphous teratoma.

In summarizing, the author states that a "germ" very much simpler than a parthenogenetic ovum or early blastomere satisfies the requirements of formal genesis When basing explanations of causal genesis upon the demonstrations of contemporary experimental embryology we may dispense with a pathological "germ" in the sense of antecedent isolation, displacement, or malformation of a mother-cell or cell group, blastomere, or ovum We owe this dis pensation in the first place to Budde, who refers the pathological factor in teratogeny outside the affected region altogether by assuming a disturbance of continuity of the primitive streak. Budde bases this assumption on Spemann's transplantation experiments with fragments of the dorsal lip of the blastopore which is the organizer for somatic development The results of this disturbance of continuity of the primitive streak will be one or more small isolated, dislocated, or displaced secondary organizers, the effects of which will vary with their own innate organizing capacity, the time of the dis-turbance, the consequent development already undergone by the ovum, and the region upon which the fragment happens to act However, the effects of its action will never be perfect, that is to say, an embryo, because (1) they are overshadowed and interfered with by the activity of the great organizer of which it is a mere fragment, and (2) the cells upon which the secondary organizer acts were no longer quite indifferent at the beginning of its action Nevertheless, as part of the physiological organizer, the action of the fragment will be in directions as somatic as possible under the circumstances and, with the result, called a "teratoma," will be physiological forms of development and growth.

Finally, the teratoma is conceived of as the physiclogical reaction of a perfectly normal indifferent cell -more strictis, of the perfectly normal indifferent cells-of the part to ambient conditions, the only abnormality of which is a disturbance of an entirely physiological principle It has been shown quite recently that the action of the organizer is not vital and cellular since many animal tissues which possess no organizing action when alive will unfold it after death Moreover, adult tissues, living or dead, or their heat coagulated cell-free extracts have this action confined strictly to the dorsal lip of the blastopore in the developing ovum It would seem, there fore, that the inductive effect of the organizer is due to some chemical substance elaborated by it We can replace the conception of the material breech of continuity in the young embryo by a disturbance of metabolism in our attempts to find an explanation for the cause of teratomata The author concludes that modern ideas supported by recent experiment do much to shake the foundations of the following two dogmas of pathology (1) that displaced embryomic cell rests or antecedent anomalies of the mothercell or cells will explain tumor formation and the tumor can be explained only as a physiological reaction to abnormal stimuli, and (2) that our discipline is concerned with unnatural, unbiological, or unphysiological principles Herbert F Thurston, M D

Macklin, M T Heredity in Cancer and Its Value as an Aid in Early Diagnosis Edinburgh M J, 1935, 42 49

Cancer of a specific type in a specific organ at a specific age tends to occur in families and is therefore hereditary. In a series of families selected because two members of each had died of the same type of tumor, it was found that blood relatives were affected ten times as often as unrelated persons

Chronic irritation appears to hasten a reaction which, in its absence, will occur at a later date. In some cases it is not a factor at all

The hereditary character of cancer favors early diagnosis. While a patient cannot be periodically examined for all types of tumor, he may be examined at intervals for the type or types of tumor which have been most common in the other members of his family.

George A. Collett, M. D.

Umezawa, R Melanocyte Reaction of the Preparations of the Pituitary Body and the Urine of a Cancer Patient Jap J Obst & Gynec, 1935, 18 2

Melanin granules are found in melanocytes present in the skin of amphibia and pisces. Under the influence of certain biological products such as pituitary extract and the effect of drugs or physical impulses, these granules, which normally are arranged in massive groups, become scattered. The skin then assumes a chocolate or brownish black hue, a phenomenon called the "melanocyte reaction." The exact site of production of the melanocyte hormone in the hypophysis is unknown.

The author reports experiments which he carried out chiefly on male rana nigromaculata hall weighing from 20 to 30 gm. Injections were made under the skin in the lumbar region. If the reaction was positive, the dorsal region became dark within a few minutes after the injection. Morphological changes of melanocytes in the web membrane were studied with a capillary microscope.

The melanocyte reaction after the injection of urine of pregnant women was positive in the majority of cases. It could be intensified by boiling the urine for one minute. The urine of women with hyperemesis gravidarum, hydatidiform mole, chorionepitbelioma, or eclampsia gave a markedly positive reaction.

The urine of women with gynecological diseases such as endometritis, cervical erosion, and pelvic peritoritis gave a negative reaction. Saline extracts

of uterine myoma or cancer the cerebrospinal finid of women with uterine cancers, and proparations of folloular hormone gave negative results. On the ther hand, positive reactions were obtained with

the urino of women suffering from emeer of the atterns and with various commercial preparations of the anterior and posterior lobes of the piturtary gland

The a thor concludes that cancer carriess excrete the mediancy is hormone with the unite apparently there is an infimate relationship bet een the patistry secretion and that of persons with cancer in patients at the carried cancer subjected to reentge the control of the carried cancer subjected to reentge the carried cancer subjected to reentge the carried cancer cancer cancer carried carried to the carried cancer cancer carried carried to the carried cancer carried carried to the carried cancer carried carried cancer of the cervite, exter and gential objects, and rectume

If factors hable to cause a positive reaction, e g pregnancy, are taken into consideration, the reaction is of value for a rapid diagnosis of cancer it requires only from fitteen to sixty minutes.

JOSEPH E. NABLE, M D.

Bracco, R. New Studies on Latent Pathological Microbiera in Theoree Removed from the More Common Operative Fields (Austra nertice sol parrobasso intends pathologica sea tessum preferate da alcan des par cesumi campa operation). Cleacier 114.

Bracco reports a bacteriological study he made in the General Surpoul Climic I the Royal University Turin (Ofrector Uffreduces) t determine how in fections arise and spread in the abdominal viscera. Of amounty-seven cases of chronic appendicities the meso-appendix was found free from bacteria in thirty (18 o per cent) Of the remaining forty seven cases, the colon bacillus was molated in twenty three, the staphylococcus py ogenes aureus in seven, the staphylococcus pyogenes albus in six, the enterococcus in seven, streptococcus in one the micrococcus catarrhabs in one, the micrococcus tetragenes in one and diploments in one Four of the cases with bacteria presented lesions consisting of small ford of small-cell infiltration which were usually perivascular and sight regular lemons consisting chiefly of hypertrophy of the intime of the small arteries. Bracco concludes that, of the forty-seven cases

1.1. positive hardroological findings, forty-three may be omischered cases of physiological latency as they presented no histological latency, and four as cases of pathological latency as the inflammatory lasons were small and chromic probably because of reduction of the metabolism of the betteries or the hiberation of small quantities of endotonies by death of the original probability.

Of the bacters solated in this study, 99 5 per cant belonged to the bacillas coll group. The staphy lococens sures and the enterococcus each consiltated 9 per ceat the staphy lococcus subsus, 5 per cent the morrooccus stringmen, the streptococcus, and the micrococcus catarrhabs, each per cent and the diplococcus, r.s per cent.

In three of the four case of relating nathodiscillatency the condition was due to the benine and also not not the staphylococcus progress arrows. We dight cases is which the parameterism is studied following hysteractomy for uterms tumor the relationship was engaginer in four the staphylococcus natures was discovered in three, and the staphylococcus natures was discovered to not. One histological stary showed chronic unfamiliation with hymbory to four the staphylococcus individual conditions are not supported to the state of the start of the sta

Gordon Taylor G Bed Surgical Risks. Brst H J 934, 755-By the term "bad surpcel risk" the author means the nation traiber than the operation. He states that

the "bad surgical risk has been ptly defined his Rooks as a type of patient whose prospect of recovery from active surgical treatment of his condition falls much below the average. Surpost risk t the patient depends upon race, sex heredity boddy conformation (fat, color of hair ste) previous habits and mode of his antecedent or intercurrent disease the state of the cardiovascular resolution unnary, and nervous systems psychological condi-tions, the nature and seventy of the condition for which surgery is contemplated, the presence or absence of secondary phenomenon affecting the petient adversely and the type of operation proposed Extirpation of the rectum by combined methods is better borne by women than by men. Gestrec tomy is followed by anamia in ismales more than the males. Operations, particularly radical breast opera tions, are poorly borne during menetreation, preg nancy and partnerson. Of great importance in reducing surgical risk is familial history of losgevity. The risk is lowest during the years that the nations is in his prime and when operation is done promptly after an early diagrams and under the correct type of anastheda properly induced. Whenerror complicated surplied procedure is under outsideration the adags, Aman is as old as his arteres" must be kept in mind. Persons whose stature and form are bnormal are abnormal surporal mile. Fat is well-known surposal handlesp. In the cases of obese patients operation is technically difficult and fat is usually present not only around but also

surpact rake than others

Asteroider or intercurrent disease may projecte
the chances of successful operation. The rake is
increased superality by cardon scalar disease and
dependance. Articioclerous and classication of
vessels combased with fat in Jewah patient in
growth in the colon call for the Mitchier type of exsection. Cooperation with a good hierarch is

within the heart. Fat persons appear to be more

prone to thrombons and embolism and less resistant

for few days before operation may be a most min-

tary preliminary measure. Persons addicted to

excessive use of alcohol, tobacco or drugs are poorer

infection than thin persons. Confinement to bed

great aid in the pre-operative treatment Low blood pressure is a more serious handicap to surgery than hypertension In diabetes, the risks of surgery have become negligible since insulin and glucose therapy have been employed before operation The cause of death in fatal cases is senility, not hyperglycæmia Renal disease and antecedent infections such as erysipelas, tetanus, and pyogenic infection constitute added risks With regard to psychological factors in the danger of operation the author states that it is wise to refrain from all operations of convenience in the cases of patients who require much persuasion and show evidences of mental unrest

In cases of thyrotoxicosis the risk of surgery has been decreased by the pre operative administration of iodine and repeated determinations of the basal metabolic rate during the pre operative period of rest in bed However, operation is contra-indicated

under the following circumstances

r When the patient has been receiving indis criminate doses of iodine for months or years prior to seeing the surgeon, the basal metabolic rate is above +40, tachycardia is present, and there has been a marked loss of weight

2 When, on being given iodine by the surgeon preparatory to operation, the patient becomes clinically worse and the basal metabolic rate rises

3 When the operation has been delayed too long after the administration of iodine, iodine has lost its effect, and the basal metabolic rate rises

4 When an acute infection such as tonsillitis, is

present

When the patient shows mental disturbances 6 When the patient shows an idiosyncrasy to iodides

In spite of the current belief to the contrary, operation is not contra indicated by congestive or anginal heart failure, auricular fibrillation or flutter, hyper-

tension, or extreme youth or old age

Increased experience with radium therapy has changed the attitude that existed formerly as regards surgery of the tongue and mouth Whatever views may be held as to the best method of treating cases of neoplasm of the anterior half of the tongue which are good surgical risks, radium therapy is probably better than surgical extirpation and has a lower mortality than more drastic procedures in cases of neo-

plasm of the posterior portion In cases of peptic ulcer, ill advised, ill timed, or mappropriate surgery may convert a good risk into a poor risk. There is no single form of operative procedure which is applicable to every case. By surgical judgment or the lack of it the patient's cause may be won or lost In cases which are poor risks the simplest, most gentle, and most rapid procedure is the method of election The position, size, and fixity of the ulcer, the possibility of malignancy, and the findings of functional gastric analysis must be considered A patient with a chronic peptic ulcer may be rendered a poor surgical risk by ill-judged and indiscriminate surgery, but he is already both a poor surgical and a poor medical risk when he has bled

150

from the ulcer and he becomes a greater risk with each succeeding hæmorrhage It is logical to assume that operation is required before a second hæmorrhage takes place and that surgery is the safest procedure The possessor of an anastomotic ulcer is a poor risk. A gastrojejunal or jejunal ulcer may be a severe burden, but an added communication with the colon increases the duration of the operation to cure it and a complicating hæmorrhage makes the risk greater than ever All cases of gastric cancers are poor surgical risks

The danger of postoperative thrombosis in cases of splenic anæmia with a high initial blood plate count is perhaps not always sufficiently appreciated When splenectomy is contemplated for this condition the services of a competent hæmatologist are of

great importance

Percentage mortality is dependent upon the risk. Colectomy for carcinoma of the colon is unfavorable because of the operative mortality In cases of carcinoma of the rectum many types of operation are performed, but the most important factor is the judg-

ment of the surgeon

Surgery of the bile ducts is associated with a much greater risk to life than surgery of the gall bladder Operation should be deferred until the jaundice begins to subside Blood transfusion is better than the intravenous administration of calcium chloride as a means of diminishing or preventing the tendency toward hæmorrhage and is especially valuable when the bilirubin curve begins to rise The administration of large quantities of glucose before and after operation is essential. In cases of marked jaundice nothing more than drainage should be attempted

A patient requiring prostatectomy is a poor surgical risk when the blood urea is over 60 mgm per 100 c cm and when, though the blood urea is normal, there is evidence of moderate renal impairment.

ALTON OCHSNER, M D

Rueckert, W The Cause of Death in Fat Embolism (Zur Frage der Todesursache bei Fettembolie) Deutsche Ztschr f Chur, 1934, 243 537

A pulmonary and a cerebral fat embolism are recognized In the former there is a mechanical disturbance due to a superabundance of fat in the lungs and death results from suffocation. In the latter there are disturbances of the brain manifested by Cheyne-Stokes respiration due to paralysis of the respiratory centers which, in the beginning, are frequently accompanied by sleepiness, muscle-twitchings, and violent cramps The picture is similar to that of retention uramia Even the maximal contraction of the pupils characteristic of uramia frequently occurs

Cases in which associated renal injuries were demonstrated have been reported (Paul and Windholz, Dusie) The theory was advanced that the uramic symptoms were concealed by the cerebral fat embolism This theory was disputed by Melchior and Groendahl, but supported by the residual nitrogen determinations made by Paul and Windholz in experiments on animals. Flech and Traum opposed it. Ruerkert therefore made determinations of the residual autrogra by the Kjeldahl macro-method in experiments on ten rabbits and three dors.

It is found that protocut that three stops.

It is found that protocuted inter eason injections of from 0.31 c. c.m. of fat produced as bully placed of from 0.31 c. c.m. of fat produced as bully placed on the control of the fat protocuted of the foreign placed on the control of the fat placed on the fat plac

The a thor draw no practical conclusions from his experiments at this time as determinations of the recidinal shingen in cases of illnows are lacking. However he calls attention to the fact that the a graps duration of cerebral lat embolism until death is from eight to elsewallays.

(taux) Manua ( Serrar M D

#### GENERAL BACTERIAL, PROTOZOAN AND PARASITIC INVECTIONS

Oury P., and Le Burs, L. Chronic Staphylococcic Espitospy emiss with Protonged Course (Les septice-py obligant staphylococcypies chronices & évolution protonghe) Press mid Par 935, 43

The authors review beselv the classifications of staphylococcic infections that have appeared in the French literature They regard as most satisfactory the classification of Lemierre, vis ( ) fulminating acute type, which is usually fatal ( ) a subscut type, in which the prognous is less unfa orable and chronic type characterized by successive and multiple localisations 1 their discussion of the chronic type, the subject of this article, they report the cuse of patient who first presented a lesson at the nose and later developed secondary lesions in the langs, bones, sounts, and subcutaneous timmes. This patient was under their observation for all years The I g abscrace ere treated conservats dy while the other leases were drained surgically. When last seen, the patient as apparently cured Several cases of this i pe collected from the ht rature are discussed breefly

The condition is used common in young adult makes, probable because they are most exposed t traums and also infections. The portal of entry it couldly the aim of above As rule the limit all elion beals rapidly and there is free interval before the superariase of the septiotopy. Prima The author emphasizes the py grace natur of the organism and the frequency of the contrast in the felchiated at the discharted of the discharted at the discharted of the discharted at the discharted of the condition of the secondary lessons. A possite a blood cult re is an anial orable sign. Treatment is manufactory it consists.

#### DUCTLESS GLANDS

Tahunelli, M.: Investigations on the Relation Between the Sympathetic Nervon S streat, the Blood Calcium, as the Parathyreide (Recrule and rapports fra semption, calcema paratirosis Arch, said, ds law 1934, pl. 8).

The author attempted to determine the relations bet cen the sympathetic nervous system, the parathyroids, and the calcium content of the blood by means of animal experiments and clinical observations. I experiments on dogs, simple periarteral smeathectomy performed t arrows stes, including the common carutid, the carotid slave, and the temoral riery caused no thance in the calcium content of the blood. After the reaction of tracts of the mesenteric, omental, and femoral arteries a or 5 cm. long Ith consequent interruption of the peri ascular ampathetic sheath the calcium contest of the blood decreased, reaching its leasest lead from one to three day after the operation, and then returned to permal in from four t ten days. After resection of the left great splanching period immediately below the displicages the calcium content of the blood showed a decrease buch began t est four hours after the operation and reached its maxmum bet on the third and fifth days and then returned t normal by the eleventh or I clith day

The diniral law saligations, though carried on is for an possible under the same conditions as the experimental unvestigations, yielded has dennie sindings. The tympathetic hervous stem at i juried during various operations at underset uten including strussections; if it manipulation and attention of the exects, exection and ampetation of the stomach, and resection of portions of artimes. Their operations were bloomed by only night attainant in the blood calcium, all of his were uban to

limits of normal lisatis and Dophotth has claimed that he per calcurate occurs in various pathodical conditions, including hypertension, scienceperas, and disherts as the result of hypertension of the parathyroid brought about by prefunctions on the science of the yapathetic over that of the agus. The authority production in the blood calcurate we found only shift variations in the blood calcurate.

these condutions.

To ever his experimental show that effects heretofor considered society those of parashy notices on the brought about 1 leaves degree by oper tise on the stationeric nervous priess even 1 disease from the next. The question arises before the order to the parashy refort through boart by an artherite serve or by the direct society through the properties arrived to the direct society of the direct s

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Calef, C The Influence of the Prostatic Hormone on the Formation of Bony Callus (L'influenza dell'ormone prostatico sulla formazione del callo osseo) Policlin, Rome, 1934, 41 sez chir 647

In recent years numerous investigations have shown that the various glands of internal secretion are of importance in stimulating repair in certain tissues, especially bone, through their hormones

Although up to the present time the existence of a prostatic hormone in internal secretion has not been demonstrated, it seems to the author that experimental work has indicated the presence of such a undertaken to determine whether callus formation is stimulated by a hormone from the prostate

Following a review of the literature on bone repair and the probability of the existence of a prostatic hormone, the author reports two series of experiments which he performed on guinea pigs and dogs

The first series of his experiments were carried out on sixteen male guinea pigs which were divided into two groups. In the animals of the first group a simple fracture of the middle third of the ulna was produced by the open method. In those of the second group resection of 4 mm of the middle third of the ulna was done. The animals were all of the same age and of about the same weight, and were kept under similar conditions. There was no immobilization. Three days after the operation in each group injections into the site of fracture or resection were started. In the cases of some of the animals extract of prostate furnished by the Serono Serotherapeutic Institute was injected. In the cases of the others, which

served as controls, distilled water was used. The injections were made every four days and the animals kept under observation for fifteen, thirty, forty-five, and sixty days. At the end of the experimental period roentgenograms were made and microscopic sections of the specimen were prepared.

The second series of the author's experiments consisted of twenty-four experiments carried out on eight male dogs at the age of prostatic function Four of the dogs were prostatectomized The hypogastric prostatectomy had been done and the wound had been long healed before the bone lesson was produced A fracture was produced in the fibula, the tibia being left intact, and resection of 6 mm was done in the ulna, the radius being left intact There was no immobilization One group of dogs with a fracture and one group subjected to resection were given no treatment after the bone injury and another group of each were treated with prostatic extract The administration of the prostatic extract, endoprostatina from the Serotherapeutic Institute of Milan, was begun immediately after the bone operations and repeated daily until the end of the experiment. The extract was given in pastilles

The article contains roentgenograms and histological sections made in all of the experiments

The author concludes that there is a prostatic hormone which very definitely influences the formation of callus after bone fracture or injury, and that in the experiments he reports it exerted such an effect whether it was injected at the site of the lesion or given by way of the gastro intestinal tract

BARBARA B STIMSON, M D

## BIBLIOGRAPHY of CURRENT LITERATURE

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#### SURGERY OF THE HEAD AND NECK

#### 11-4

Epstheboras following values of the scalp, report of case E L Burns Arch Surg 015, 30 266 Treatment of loss of substance in the anit of the cunum following guishot wounds: J Rearandir Bol Soc de cirrar de Romino, 934. 335 The surgical treatment of closed fractures of the skell

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Chuical science and ophthalmology. A M. Raitsa Brit M J 935 50
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Changes M. J. 015, 40 65

The effect of bromespeer and an est second 30 W. A. Serliz and M. Bon val. Am. J. Cancer 015, 3

Sterlity at special reference to extracel possibilities.

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New studies on lateri pathological scienosem in timesemented from the more common coverant faith. R.

BRACCO Clan. clar 914. [579]
Bad surpcul mids G Gornon-T tion. Bril. M J.
914. 81755

one, st755
Suppery of the hand and fingers. East Zeatrable Char 914 p rsq.
The cuses of doubt is fat embelsen. W Rusecus Levels Develocks Xuche J. Char 214, as 117
1571

# General Bacterial Protozoga, and Parasitie

Latent sepas and its mundestations. W. IL Oumers.
Practitioner 935, 341 79
Venore septicionals. N. J. Zumuruza. Semana mell.

vanio di septémenta resulting from cut lata. R. J. Brower Canadras M. Asa J. 917, 3. 84
Brower Canadras M. Asa J. 917, 3. 84
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Boll, et me'm. Soc met. de char 1935 6 60
Claronic study location septicopy armies with perlonged course P Oc. and L Lz Bana Press med.
Per 935, 43 61
[873]

#### Duction Glands

Endocusobary present-day somenary R. Dramov Person Name M J 915, 35 3 3 Scodies in the substyphory and hatchory of the ductiess stands. G A Wirton Med Rec. New York, 915, 141

200
The promotom of granulation and epatheliahastics by extracts of timer secretory glands. Experimental study A. S. Konroux. Hitt. d. Grennych d. Med. Chr.

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Company Am 1 M Science Bo 270

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Contemplating the hormones O Rizotz Endotrieology 315. 4

in. M. Am. 645, not 656. Chromatesphorotropic principle of the pars intermedia of the pointage. Zeroper. J. Am. M. Am., 1035, to, 637. The relationship of the hypophysis to hear great in the alties. It. J. S. Stow and E. W. WHITERIAN Endoconduct. J. S. Stow and E. W. WHITERIAN Endotrophysis.

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children, R. L. J. Kun vater Managers Mail 1935, 3 of Hyperparathyroldism, J. F. Bonn Musamets Med.

935, 12 63 to stage the relation between the sympathetic services system, the blood calcum, and the parallysists. M Takannilli Arch seld dither 1934, 93 190 [577]. The translated of parallysised decay D Carriella.

Laborate 1915 253 Mg.
The ladience of the prostance hormone on the farmation of bury colon. C. Catagor Polarias, Roma, 1934, at sec. chr. 447.

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The latest the corresponde substance in human male colon. The Catagories of the Colon of

The nature of the carrografs substance in homes rule urase and bull tests: R. I. Doursaix, T. F. Gallassin, and F. C. Korat. Endocrinology, 915, 9, 11, anturns, Chesand observations on the effects of APL lantanism 5, on the truster W. L. Romatia. Endocrinology, 1915, 9

#### Surgical Pathology and Diagnosis

The value of the new biological test of Tomass In the degrees of surgical tabertaions. Early years' clearest expensions. J Januarier When reed, Webrache 934, 986, 1018, Quo, 1078.

#### Hospitals Medical Education and History

The begraphy of Professor S T Spanolabetaky A Banulay New Khir Arkh 1914, 32° 89 Restonbusces of an assaultini, T Galyman Ver Khir Arkh 1914, 3 103

# SUBJECT INDEX

ABDOMEN, Acute inflammatory conditions of in secret A fever 114, 25 m caree of electoric teeth in 12 thema of anter or wall of 13 functional deringe ment dintestines following operation on 3-5 defects of 42% of, following appendiced mix 322 cent i ins and reptures of small intestine in closed injuries of 52, painful e reliti us of in childbook, see and tem all charges in liver in varies syndromes of nutricide of eas

Abducers made Pail of his all conditions of, 402

there of Habitual, age, relation between parity and pathol scal of detries, at, clinical u e et price tin in treatment if habitaal 431, due to psychic trauma, 54.3

Abresso, Time for operation on 2 3 New John in raid

ULTIN> lediscas de case. Fransplantation of infrenal cortex for 235

Idieral, See Supracenal

Idreadin Positilities of lead injury to tissues from injections of and selutions containing 167

Inamil erross, Quantitative histel ical studies of romal and pathot a cal hone mirror as plates of inhibition of lone name and me cti lis and treatment of 474

tirentolism bureical importance of 71

Illers-tchoenbern disea e in 1

Mobil, Rel of intractable pain by intraspinal injection 3 injects not into soft inchn a nerves in treatment of diabetes mellitus of

Venkenus, Lanuted with presouncy (15, and state)

of inhibition of bone marros, 101

Illergy And a neathetic orbitish na, os, catgut 473 Theolar echinococcus Intermediate and transitional path oforcal forms between hydatid echinococcus and 267 Immonia in eclampsia, 541

Inzmia, Quantitative histolesical studies of hone marro

in, 55, severe puerperal 1.5

Inesthesia, Obstetrical, induced with evipan sodium 43 ad antages of intravenous evipan, in ophthalime surgery, 93, eyclopropant, 152, dangers and injuries from local 152, avertin in pre anasthetic medication, 250, technique of intratracheal 350 factors other than anasthetics affecting, 159, general reactions of loods to ether inhalation, 305 new German exipan sodium 365, general, induced with evipan sodium 366, short intravenous, induced with exipal soddum, 360 subarachneid, 307, clinical observations on use of eviptin, 463, use and abuse of spinal, 502 behavior of certain reflexes of periosteal and articular origin in surfical

Angina pectoris, Total thy roidectomy for, 90 197

Ankle, Arthrodesis of posterior inferior in treatment of severe malformations of foot 214, treatment of sprained 351, treatment of malunion of 557

Intrum of Highmore, Chronic pyogenic inflammation

of, son

Anus, Achalasia of, and megacolon 221, surpical anatomy of, 330

picolysis in pulmonary tulicreulosis 314

appendectomy, Abdominal wall defects following, 329

appendiceal fistula following 423
Appendicitis, Errors of surgical diagnosis in, 62, and acute inflammatory abdominal conditions in scarlet fever 114 deaths from 114, acute, 220, 520, 530, in expeculos, 250 indications for early operation, -o etiology of 329 management of perforated, 329, hematurix in, 3 o, vilue of negative explorators puncture in suppuritive, 4-3, acute in children, 520 511 acute tuberculous 510

Appendix, P cudomy roma peritoner originating in, 35

diverticula of 35

Arachand Ana tomosis of ureter to in treatment of hydrocyphalus 201

Arm Rocat, en therapy of vasomotor disturbances of extre inties, 143 classification, etiology and differen tial diagnosis of lymphodenia of extremities, 100,

cause and treatment of tennis 551

Arteries Gangtone of tingers and toes in polyarteritis nodo a 114 surgical treatment of hypertension in, it i results of afteriography in diseases of, 360 pas we va cular exercises in obliterative diseases of peripheral by rhythmic alternation of environmental pres ure 361 ctiology clinical findings and treatment in cudartentis obliterans 30t internal topography of of Lidney and renal pelvis of human beings and domestic animals 442 afteriovenous mastomoses 450 role of nutrient of long bones in formation of callus and calcincation of medullary cavity, 555

Atteriography importance of intracrimial pressure in circulatory conditions of brain in 98 results of, in disca is of itteres and tumors 300, diagnosis of ment cus injuries by 452 information obtained by, in vascular diseases of extremities 457, critical study of 534 dangers of 534

Arteriosclere is Conservitive treatment of peripheral

vascular di cases due to 144

Arterios enous anastonioses, 450

Arteritis Information obtained by arteriography in, 457 Artery Ligation of carotid in treatment of pulsating exoplith ilmns 207

Arthritis Pathogenesis clinical aspects and treatment of, in hamophilia so chronic proliferative in patients with rheumatic fever 445 orthopedic and physical therapeutic treatment of chronic 448, periarticular injections of novocain in management of traumatic, 350 See ilso names of joints

Arthrotomy of knee joint 52 Arthrotal pneumothorax Thoracoplasty versus in treat ment of pulmonary tuberculosis 207, in lung abscess 114 in treatment of pulmonary tuberculosis, 314

Aschheim Zondek test Friors inherent in pregnancy tests based on 341

Astragalectomy, Static conditions of foot after, 14r Mas Subacute suppurative osteomyelitis of, 352

Auditory nerve, Diagnostic factors concerning herpes zoster of 102

lutonephrectomy Sephrectomy versus in renal tuber culosis 545

Autonomic nervous system Relation of, to carbohydrate metabolism, 166

Wertin in pre anasthetic medication, 259

Axilla Burn contractures of, 58

Axillary vein Fraumatic thrombosis of right, 54

BACTERIA, Significance of, in surgical infections, 257, action of anacrobic and acrobic, on surviving small intestine of rabbit, 476, influence of hormones of percensicy on growth figs. Intest path-logical in become reported from most common perates fields.

ting of waters, Delayed rupture of, 413 Bants disease Relationship of known sugest spience

mega y fa, 515 Barthona glande, Rare consects tume tumera regue 4, 1

Harrison durant See Gute Banam peratum Companion of, 1th Breast Hacken-

brack Drueser, Schmieden, and kirn have peratura, Bile Beka we of calcium in hone after total exchange of,

Bale ducts, forces in surposal diagnosis, 6 applied physichopy of extrahepath, beauty track, 113 Di perrilucution, 3

fullharman Criminy 17
Blackler, Formation Countries untiling to woman in entirely of 1) entracts of foreign body free, by natural toute 44, cycloluphanes or a, work of uneary is pregnancy to firets on in these of in-compress wreteres exact the base of tabless compress areterovened the a use of column carcinoma of 321 Catalia emphysications, a lab harmanis of 37 diverticulum of in infrancy and hithman 1,1 experience ith described of 441 rales I related to bettle of and agree 15° retrieve of those property 1, 1 fails described with any of single property in the state of the second training to the second 110 receives discussed out to the second 110 receives a second second 110 receives a second 110 end results in injuries of, 517 beterotique totos-general extraord. In all of grafts of prices of, in Minister on States on Temperatures

Librarithme, I taken denders and

Bhad Charges in level of ment of, wanted all surgan operations, 41 hyperblyres and or arten hormore in mentional, to, content of thy not I gland herrowne us, during programmy 4, absorbed conditions of prognancy and sugar content of of reetler and child. 1.

reaction of to guttaliaphot in obstets material and the state of the s grapulations in aretrophic Es in a settent on certain fermentates processes in turner tissue of substances that cause hyperdyceram, 44 Anatoms of alimentary glyczmu induced by akodol dijection of spland in 201 lebs not of lactic and of its supraread insulationary 15 des lignorest of inborne of man. bodies to service of of search, topics or been by our tour you talken and degrees and dotrain to flowed through lang. 1 chemistry of to he of many clearing it gays rangement alte jajettemani plac tial trac ean harge of in heral brendryblehin and the discourse bracks py relation to or absert of and propettie across yatche and parathyres (7). Blood persone surg al treatment i arterial hyperten

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ememberated states as reput of, at more or there My of samout disturbance of retrieves, as reservato treatment of arternachesta durant of perspheral, egs mucosal, of thereby atends a der legerant of, in chorum of man, 43, function of peripheral aucomotiveia as an material of an physics of arrelard cell in traumatic accelerts and corp nation in by subrutaneous injectioned after diorale see migrating projectile ta, \$10, passe excesses 4 sa perquie al militerativa arternal mesers by hythmic alternation of environmental process. saluration obtained by arters grathy

diseases of of extremation of little change shares of 44 betreet pic, in spices, 167 lateret que, ob-tained ath and of graft of blacker moreous to membe or grafts of appearance in bladder 507

Bore bland mass, Harmestatic properties of, \$50 Bette marrew Quantitate Fatibigual steller of mon and paths is good, 55, the of and endousees in total retrineration, 35 changes in cell potter in, in infretaes decare, 6 states of labeleton of to Bones, Quantitate Harly of rate of bealing of 1

mant the carrieonations have primary in corpur Ca erama of pears the metastate in. 11, the of beer marrow and reductrum in regeneration of 1100 beha not of calcium in, after total enclose. fractions come farth 14 to been of agent steads on formation of albeits, 140, also of maleto methods of out wysthers by ternal fasts a taxan of adults, 17 admin therapy in president in from letted cornerma, 170, childrend my releva and separtition of base are studen, 110, proportionations with harges in 3 of distinguishment of heat to formation of collus and additions of me hours y 555 Arrain name of brace, her make

and operations Boars disease of palate and factre ont Braun, Operateday of tumors of the after Ercts of head

salary on, a unportate of patracrasual person of the preliatory confidence of in after graphs: wants they are subjectably in the series of more all the langed and participage at step by of termors of, as in 1927 ton, facul and menungral extramation in it of the about not of seres of, as severe terrioral ampliana alter operation on pieur or line. P surphale raphy in hillers, and diagnose and treatworst of abserts of no new technic or for its next of traumans; his had entrained, no treatment of any hysical or ent al. If no traumants, nearly and their accular comparations by subs tannes some t me f arism shreads you principly melanest to more of at al persons yourse and mendants toy treatmen of ac to and bronc are of corel al traces by methods of deligible 4, 41 distable 44 a upti principi and um write, at -72 splitte rue projette in series of 4 darrent floor management of abures of There I share of grammand sat is used prime't photograms, 4 sound t sound t, on used to phonorma, 4 muscl t must be you winted when all 4 turners of to tall tall all the self-400 prous and treatme falmound 5 m agreer I be subdistillarms many a promit

energialise councily princeries or man 1 a. Breast Diagrament and of princer menda direct but in the creat at an and a security principle of Standardity found 5 to 44 while absents of se nature ! france of had in the partition of the second of the se plastic repair of, 206, relationship of so-called umbilical adenomata to apocrine sweat glands and adenofibrosis of, 212, changes in lungs and pleura following roentgen treatment of cancer of, by prolonged fractional method, 264, diagnosis and treatment of doubtful tumors of, 312, radium therapy in bone metastases from carcinoma of, 370, perithelioma of, 416, Paget's disease of nipple, 416, technique and results of irradi ation in carcinoma of, 417, interstitual radium treatment of carcinoma of, 517, relative value of surgery, radium, and roentgen therapy in carcinoma of, 517, diffuse intraduct carcinoma of, 517

Breech presentation, Method of dealing with, 439 Brenner operation for hermia, Comparison of, with Bassini, Hackenbruch Druener, Schmieden, and Kirschner

operations, 322

Bronchi, Reaction of lung tissue of rabbits with organic Broesicke's hermia, 534 foreign bodies in, 106, surgical treatment of carcinoma of, 108, serial bronchography in early diagnosis of carcinoma of, 315, carcinoma of, 316, topographic classification of primary cancer of lung, 316, classification fication of carcinomata of, in relation to treatment and prognosis, 316, lobectomy for carcinoma of lung, 317, total removal of right lung for carcinoma, 318, cancer of, combined with tuberculosis of lung, 578 Bronchiectasis, Gas cysts of lung and, 107, one stage

Bronchography, Serial, in early diagnosis of bronchial lobectomy for, 208

carcinoma, 315
Brow presentation, Prognosis and management of, 232
Brow presentation, Prognosis and management of, 232
Buerger's disease, Roentgen therapy in, 143, Etiology,

clinical findings, and treatment in, 361

Burns, Contractures of axilla due to, 58, treatment of, with cod liver-oil ointment, 461, treatment of, 462, cases of, treated in Glasgow Royal Infirmary during past hundred years, 462

Bursitis, Clinical and roentgen study of chronic, 551

ÆCUM Acute diverticulities of, 34, nvagination of haustrum of, 35, intestinal intussusception at tumors

Casarean section, Twenty four years of conservative low, 42, review of 486 consecutive cases of, at Women's

Calcification, In supraspinatus tendon and subacromial

bursa, 242, in intestinal tuberculosis, 326

Calcium, Influence of local excess of, and phosphorus in healing of fractures, 53, behavior of, in bone after total exclusion of bile 222, deposits of, in supra spinatus tendon and subacromial bursa, 242, stream of, as concerned with healing of fractures 245, relation between sympathetic nervous system parathyroids,

Callus, Influence of suprarenals on formation of bony, 349, role of nutrient arteries of long bones in formation of 555, influence of prostatic hormone on formation of

Calmette vaccination, Value of, in prevention of tubercu

Cancer, Action on certain fermentative processes in tumor tissues of substances causing hypoglycemia, 104, experimental alteration of malignancy with homol ogous mammalian tumor material, 105, metastasis in squamous carcinoma, 166, direct demonstration of anti-cancer bodies in serum of animals immune to homologous tumor, 269 statistical results of Roffo's test in 11,000 cases of 270, reasons for failures in rountgen therapy of carcinoma, 309 treatment of, with extremely hard roentgen rays, 564, melanocyte

reaction of preparations of pituitary body and urine in cases of, 569, heredity in, and its value as aid in

early diagnosis, 569 See also names of organs Carbohydrate metabolism, Relation of hypophysis, hypothalamus, and autonomic nervous system to, 166

Carbon dioxide, Treatment of asphyxia of cerebral cell in traumatic accidents and their vascular complications by subcutaneous injections of, 306

Carbuncles, Roentgen treatment of, 561 Carcinoma, See Cancer and names of organs

Carnofil, a physiological suture material, 261 Carotid artery Ligation of, in pulsating exophthalmos,

Castration, Effect of, on antenor hypophysis of female rat,

Cataract, Effect of thyroxin on, 298, technique of operation for, 404, subcapsular, in osteomalacia, 507, among the Chinese, 507

Catgut allergy, 473

Cavum septi pellucidi, Dilatations of, 411

Cavum vergæ, Dilatations of, 411

Cheek, Radiotherapy of cancer of, 19, treatment of epithelioma of, 405, cancers of, 505

Chest, See Thorax Chlorine, Observations on, in cases of death from high intestinal obstruction, 32 Cholecystectomy, Duodenal fistula as late sequela of hepa-

ticocholedochostomy and, for stones, 33

Cholecystitis, Errors in surgical diagnosis, 62, without

Cholecystography, Sources of error in oral, with, 333 Choledochus, See Bile ducts

Cholelithiasis, See Gall stones Cholesterosis, Experimental production of, 223

Choline in menstrual cycle and puerperal state, 538

Chordoma, Sacrococcygeal, 61, 515

Chordotomy, Late results of, 103, for relief of pain, 471 Chorionepithelioma, Extragenital in male with positive antenor pituitary lobe reaction, 62

Chromocystoscopy with phenolsulphonphthalein in diagnosis of Lidney function, 131

Clawfoot, Etrology and results of treatment of, by anterior

tarsal resection, 554 Cleft palate, "Push back operation" in, 405 Chtoris, Valignant melanotic tumor of, 540

Club-foot, 355, arthrodesis of posterior inferior ankle joint in, 244, cases of congenital, observed at Rizzoli Orthopedic Institute in period from 1899 to 1933, 354, congenital convex, 354, talipes equinovarus, 355

Cod liver oil, Treatment of fresh wounds, burns, and phlegmonous inflammations with, 461

Cold, Influence of exposure to, on development of shock,

Colibacillosis, Urinary, 447

Colitis, Roentgen appearance of mucosa in, 328

Collective review Gastroduodenal ulcerative disease, a review of the 1933 literature, 1

Colon, Intercostal herma of, of spontaneous origin, 29, malignant tumors of, 33, absorption of dextrose and water by, 159, roentgen appearance of normal mucosa of, 218, anal achalasia and megacolon, 221, anomalies of intestinal rotation as cause of intestinal obstruction, 325, danger of sudden deflation of acutely distended bowel in late low obstruction of, 326, roentgen diagnosis and clinical significance of anomalies of 327, appearance of mucosa of, in pathological conditions 328, pathology and treatment of bleeding polypoid tumors of, 328, transplantation of ileocæcal sphincter in anastomosis between small intestine and, 422, in nervation of distal, 423, cancer of lower, 424

Colon bacultus, Harmatoma don to, 17 to terion, 447 pathogrames and chancel aspects of september due

Colostomy 500 origins and evalution of Colposcope in diagnosis of carcinoma of portlo, 438

Common doct, See Bile duct

Consumers that bisological diagnosis al, 1931 etiology of inclusion bisnorrhers, 1990 catarrhal dipirthemic, 40 Cord blackler Tidal drawage in treatment of, 546 Corpora cavaraore, Mahanast non caremoratous tumor primary in, of prass with vinceral and openion meta-

tases, 53 Corpus latesan, Action of extract of, on uterns of un-

annesthetuned rabbet, 337
Contard rotatges therapy Modeled, 564
Core plane, See Ontochondrites deformant presents

Core vara, Compensal, 451

Crantopharympome, Suprasellar 3 Cranton, See Shall

Cryptorcastam, Undescended testes treated ith autorior primitary-like principle from tirms of pregnancy 45. 46' and torson of spermatic cord, 13 makenest growths of undescended testacle, 35 oragin of, 45 Curare in treatment of tenance, 53

Cyclopropana agenthema, 5 Cystic duct, Jan Bule duct

Cystermen callulose, Meningo-encephalum carned by \$14 Cystitle, Cutaneous aroterostomy in treatment of persament, after rephrectomy for toborcolous, 247 morasted, 445

Cyclin cuphyscoutess, 14

Cystochephenescopy 9 Cystoscopy Chromocystoscopy with phenolethphoophthal-

tra is disgresses of Extracy (traction, 31 Cysis, Pilosedal, 37 See also names of organs EAFNESS, Otoscienous problem, az presutal medica-

tion as etiological factor of, in newborn, per chronic, in children, coli Deceptualisme, Value of an medical and surgical nephratis.

Debydration, Treatment of acute and chrome cases of terebral transas by methods of 41 Deltori reacie, Treatment of parameter paralysis of, 415

Dental granuloms, Intracellular bacteris in, p4 Dextrom, Absorption of, by small intention and colon, 50 Durbates, Surgical complications of, 171 Diabetes mellitus, Variations of alimentary givernols in-

duced by alcoholic injection of splanckness in, my Dasgnous, Errors of surgical, as first surgical division of Rossevelt Hospital covering period of three years, 6s Duaphragus, Transparic laceration of, 1th herous of ston-

ack and soires, 15 Displaragements betwee, g , of stormeth and splaces after transmatte incuration of displarages, so of large m-

testine of apostaneous ongos, sp, through right done of daiphragm, 52 at unoplasged histor with short complances and thoracte stomach, 522 produces and agnificance of histus berms in preparat women, 421 Datherny. In treatment of retiral detachments, 94 principles, application, and results of short wave, \$70 hyperthermia caused by short-wave, 37 In treatment of malignant discuss of upper paw 401 come of retinal

detackment presenting certain uncomal features after operation by surface, 404, short-was e, and its use in surjecty 469, patiental conditions of brachioscapular region and their treatment with physical agents, 55 ;

ainet-wa e, pêş Denktheria, Modern tergesey in, o, catarrhal denktheritie computativities, 404

Discuss, Ges's, x0s; Stamonds' 57 transplantation of adjunct cortex for Addison's, 35, treatment of Westadment cortex for Addmen's, 15, treatment of West-half with "sepsymentatid, any case of sixtem of oper-ations for Expansify, and present features of pressil likely, to ministens and heaphents, 5 free-jest as versal in Hindelton's, 15; chrosts comparing spins-mentry, and in relationship to Health, 119, Others, analysis, 416 instituted of Endelton, 19, Tarchi, 48 apple, 416 instituted of Endelton, 19, Tarchi, 48 analysis, 416 instituted of Endelton, 1 method of continuous windration of cating body and

Drop. Therapunian of intravenous, pio Decderson, Collective review of 1933 hierature on sixtentive decree of fattile of, as lete scorele of benethorobolectochastomy and chalacystectiony for stone, 11, even in surject disquess, 51 diverticals of, 117 time of operation for alcar of, 270 metable or irritable. 4s 5 nature and treatment of peptic picer of, 110

surpary in treatment of peptic silver of 556.

Done, Uretmodural anasterous in treatment of hydrocrobaba, soy Suspeal management of chrosic seldural beneatone, y s

Dyschondropiana, Chanal, somegenological, and hata-logical parties of, so, of Olive, 150 Dynamerrica, Industries for prograte us, 411

FAR, Macopuralent tobolympuno selections, 18, found drainings for treatment of methodise secondary is infaction of, 18; occadences presiers, 91, pressing medication as possible encloped factor of desirant in personal you results of treatment of mahasai tamore of, your therapeutic was of toncentrated streets-

coccus terms of New York State Department of Health is injections of anti-wasdow operation for historia of, and perchangina with effects, not Echanocorria, Internediate and instantonal pathological forms between hydated, and alvedar to man, 167

Echampas, Death Item, 26 relation between party sod pathological obsertica, 34, blood chematry 21, 347 occurrence of, in Denmark comes years, 918-97, 4171 aremords to, 541 treated by modified bisogened mechod, sat

Ectopic pregnancy 435

Elbow Came and treatment of tenne arm, 51 k) gomets of spacendyhan and becautal beam containing mes bothes, 15 Electrocompulation, Comparative effects of various legi-

frequency currents and of thereal tentensation in prostatic resection, 19 Embolians, Pulmonary, as complication of treams, 144, pointonary following surpred operation, 48, surpre-importance of air and fat, 57 threamone of deep veins of lower leg comman palmonary part parties of

polymothery also, parlmonery pe cause of death in 51, 57 Empyross, Time for operation for, 270, patrol, due to

ametrofac streptococci, 4 \$ Emerghabite caused by systements cellulous, \$14 Emerghalography. In closters, sort changes in sells turned and alone of interpretancelar casters above by manner

geometa attached to meanl part of spheroid migr. 200, seguificance of absormally shaped seharackets Casterns as seen by 414 Ladartenius obhismos, Roestgen thertpy 28, 141, Et-

ology, circural findings, and treatment in, pair passive vaccular exercises in treatment of, pa Endometroms as mandestalion of everan dyskuctus, 176

Endometrium, I indians in, in functional manustrial de-orders, so, se-called sarcous of, saf. Endometrie, Role of, in toos representation, 18

Enciotherin mga to obstetnes and generalogy 19

Enterochromatfin gland, So-called, 217 Entropion, Operations for relief of cicatricial, 17 Ependymal canal, Roentgenological visualization of, in Epiddymis, Aberrant adrenal tissue in 134 extrusion

operation for tuberculosis of, 547

Epuddymo-orchitis, Acute tuberculous epididymitis and,

Epinephin, Effect of, on sympathectomized human ex

Epispadias, Technique for cure of, in women 337 Equilibrium, Importance of investigation of, for judgment

Ergot, New active principle in, and its effects on uterine

Ergotamin in obstetrics and gynecology, 437 Ether, General reactions of body to anæsthesia induced by

inhalation of, 365 Eustachian tube, Mucopurulent tubotympanic infections,

Evipan sodium, Obstetrical anasthesias induced with 43. advantages of intravenous, anæsthesia in ophthalmic surgery, 93, new German anasthesia induced with 365, general anasthesia induced with 366, clinical observations on use of, 463

Evisceration, Postoperative, 364

Excitement, Postoperative states of, 253

Exophthalmos, Eye complications in exophthalmic goiter Exophthalmic goiter, See Goiter 20, physiological considerations in treatment of pul

Eye, Operations for relief of trichiasis and cicatricial entropin, 17, complications in, in exophthalmic gotter 20, advantages of intravenous (evipan) anæsthesia in surgery of, 93, use of thyrorin in, 293, allergy theory of sympathetic ophthalmia, 298, ettology of inclusion blemorrhea, 299, meningiomata attached to mesial part of spheroid adde milk sandrome of unlateral part of sphenoid ridge with syndrome of unilateral atrophy of, defect in visual field of same and changes in sella turcica and in shape of interpeduncular cistern after encephalography, 309, paralysis of individual muscles of, 402, ophthalmic symptoms in brain absence.

Eyelids, Operations for trichiasis and cicatricial entropion, 17, adenocarcinoma of meibomian gland, 301

FACE, Angiomatosis of, associated with calcincations of

Face presentation, Spontaneous transformation of, into occiput presentation during period of expulsion 232 Facial paralysis, Operative treatment of 310, peripheral,

treated by cervical ganglionectomy, 414 blood transfallopian tube, Primary carcinoma of 37, blood tube, Primar fusion in certain gynecological conditions, 38, sensi bility of female internal genital organs 121, tempera ture and vascular reactions in treatment of inflam matory diseases of female genitalia with heat, 122, appendicits in gynecology, 230, roentgen therapy in gynecological inflammations, 263, thermo-electrical researches in obstetrics and gynecology, 338, congential ectorics of communications and gynecology, 338, congential ectorics of communications and gynecology, 328, congential ectorics of communications and gynecology, 328, congential ectorics of communications and gynecology, 328, congential ectorics of communications and gynecology. tal ectopia of ovary and, in labium majus, 430,

ectopic pregnancy, 435
Fat embolism, Surgical importance of, 271, cause of death

Femur, Anatomicofunctional study of round ligament of 243, sequences of experimental infarction of, in rabbits, 243, fracture of, with luxation of ipsilateral hip,

246, displacements in fractures of neck of, 247,

Fetus, Roentgenological study of mechanism of engage

Fibroblastoma, Surgical treatment of mediastinal or intra

Fibroid, Spontaneous rupture of capsule of, 427 Fingers, Gangrene of, in polyarteritis nodosa, 144

Fistula, Duodenal as late sequela of hepaticocholedochostom, and cholecystectom, for stones treated by duodenorrhaphy with omentoplasty, 33, incidence of pilonidal, 372, postoperative appendiceal, 423, radical

Flank, Advantages of large muscle splitting incision in

Flat foot, 353, variations of skeleton of foot as basis of disorders of, 51, arthrodesis of posterior inferior ankle

Food Influence of deprivation of, on development of

Foot Variations of skeleton of, as basis of disorders of, 51, stauc conditions of, after astragalectomy, 141, roent gen therapy of vasomotor disturbances of extremities, 143 elastic supportive system of human, 244, arthrodesis of posterior inferior ankle joint in treatment of severe malformations of, 244, flat, 353, congenital convex valgus, 354, etiology of claw, 554, treatment of claw by anterior tarsal resection, 554

Forceps, Conduct of labor in placenta prævia, with special

Fracture, Unilateral central and annular scotoma produced by callus from, extending into optic canal, 92

Fractures, Quantitative study of rate of healing in, 52, influence of healing of, on choice of methods of treatment, 52, influence of local excess of calcium and phosphorus on healing of, 53, rôle of bone marrow and endosteum in bone regeneration, 138, emergency treatment of 141, multiple spontaneous idiopathic symmetrical, 245, calcium stream as concerned with symmetrical, 445, calcular stream as concerned with healing of, 245, gangrene following, 246, influence of suprarenals on formation of bony callus, 349, value of modern methods of osteosynthesis by external fixation in cases of adults, 357

Fragilitas ossium tarda, 241

Funnel chest, Treatment of, 206, 419 Furunculosis, Role of organic constitution in evolution and treatment of, 463

GALL bladder, Secretion of mucus by epithelial cells of, and experimental production of mucocele, 222, torsion of, 223, experimental production of strawherry, 223, applied physiology of extrahepatic hiliary tract, 332, intramural and interstitial calculi of, 425

Gall stones, Provoked elimination of, 116, time of operation for, 270, intramural and interstitual calculi of

Ganglionectomy, Peripheral facial paralysis treated by

Gangrene, Of fingers and toes in polyarteritis nodosa, 144,

Gastrectomy, Technique of partial, 111
Gastric juice, Treatment of pyogenic surgical diseases with artificial, 257

Genetic activity, Influence of thymectomy on, 340 Gee's disease, 162

Gland, Intraglandular calculosis of submaxillary, 89 so-called enterochromatin, 217, adenocarcinoma of meibomian, 301

Glands, Healing of Otophastic transplants of Symple, 2461 relationship of so-called metalical adenounts to anocome sacat, successed of mediantical, 3 rare connectly tuesus turnor in region of Bartholio's

431 Glosaopharyngesi neuralgus, 414

Glyceram, variations of absocutary undered by alcoholy; rajection of splanchmen, so ;

Gotter, E3 complications in exophthalmic, so hyperthyrothers in segro, so, chincal aspects and treatment of strums mebgne, histological structure of thyroad remaining after curs of Basedon's discuss by subtotal the restrictions thyrotome hypertension, 294, thy road surpery as affected by generalized tree of sociated salt in region of endeaute, 97 these of operation for 170, correct and incorrect use of sodies in treatment of, you, operates treatment of hyperparathyroshum, 374, remissions is hyperthyroshum fadoced by pregnancy-arine extract, 407

Gonococnes in etrology of inclumen blenorrhoes, ago Genureaction, Specificity and behavior of in prostitutes,

Gonorchera, Chrical aspects of, in female, so specificity and bear for of goodresction in produtities, ye, and programmy 54 infection in municipes vagion, 430) treatment of, in facule, 433

Graciesago's synctrome, Oculometor ners, spasse in, 306 Granolome, Intracellular bacters in dental, 91

Grandspends, 5 quantitate histological studies of acrossl and pathological bone marrow 55 Graves' disease, See Goster Graves' disease, See Goster Gattadiaphot, Reaction of blood to, in obsteting, 228 Gynecology Blood transferior or all endechekal ogn m,

appendicts in, so recating thempy of gyac-cological inflamouations, so; thermo-electrical researches in, 138, ergotantin in, 417

#### Gynecomastia, 04

LIACKENBRUCH Dreemer operation for herms, Comparason of with Bessel, Breaner, Schousten, and Executer operations, 111

Hemsters, Colos becilies, 37 chosco-operate counderations on paraful pepkritis with, 30 is appendicate,

Hamoclastic reaction of Jacchia, Determination of liver function is teamines of pregnancy by 435 Hamolytic shock, Pathologico-anatomical changes in

organs following, 55 Hersophiha, Pathograems, climical aspects, and treatment of arthretis in, 50 treatment of, with O T to, 50

treatment of, 505 positioners, is no brothers, 435
Hermorthage in relation to shock, 50, 807 and
Harmorthage, Melhod of, during preparetacy for large
lidency calcula, 426, use of timese extracts for 475
hermortatic properties of home-book mass "marget,"

559 Hemotherax, Treatment of scute traumater, 100 Hand U sensi breation of first metacarpal, san desabili-

ters of, 450, results of tenden enture Da, 555 Harein Time of operation for 270 skeleton of 100 Head, After effects of unjury of sy, importance of unjustgation of equilibrium apparatus for judgment of old

minnes of 307 Heart, Wounds of, all clinical syndroms of short suck and very rare malformation of in newborn infant, 6 total thyrosectomy to treatment of congestive fashers of 97 X ray kymography of, 166, 466 continuous of

4 8 ducate of, complicating programmy \$43 Heat, Temperature and vascular reaction in treatment of inflammatory diseases of female genetals with, #2

therms-electrical researches in obstatuce and greecology 158, hypertherms caused by short waves, 571 Hepatic duct, Sar Hile duct Hepathocholeiochosturay Duodenal fatals as late morals

of, and choiceystactorsy for stones, 13 Heredaly in cancer and its also as aid in early disputes.

góg Heraia, Of stanach and spices after transatic increates of disphragra, x3; natercontal, of large natestres of spectaneous origin, 201 late results of radical operation for inguinal, in reals, 30 errors in surpeal diagnosis, 6 ; multiple ventral, sth concentrant strangulate terabilical, o, occult epigaetric, to, late intestina stensors secondary to incarcerations in, ascular femoral, 2, comparison of operations for

gast disphragmatic, 5 congenital, through neith dome of disphragm, 522 disphragmatic, at couplingcal hartes with short oscoplages and thorses: stemach. 5 , meedence of battes, in preparat women and its sepastionere, 523, named form of retraperational

or Bronsicke's, 534 Herpes senter oxiom, Diagnostic factors concerning, no Histin heran, Incidence of, in pregnant women and its

mentionace, 111 May, believenest changes in congenitally delocated, so-duced by Pan Lorent method, 53 classifetime and correlation of corn plans and related conditions at, 33, fracture of france with invation of maintain), ask, results of operations on paraful, 35%, selection of cases of congruent lexation of, for open reduction, 454, talked pre-shelf on congruinal dislocation of, 455

Hodgica's decree, Correlation of Instalogical changes and chases symptoms in irradiated, and lymphoticisms lymph nodes, 445 relation of typical, to informs and neoplase, 51 five year current in, 53 brackston in, 53 treated by Heathlea's method of contenues irradiation of entire body 458

Hormone, Undescended testes treated with autonor prinplacy like principle from time of programty 45, 46,

turners of breast related to cesture, 104, testent of thyroid glass, in blood during programcy 24, perhypophysesi hormourne in mahenesi tamera el uterus, 336, influence of prostatic, on fernation of bony callies, 573 Hormones, Action of gonadotropic solutances on over

all, hypophysical and ovarian, in meestral bleet, no makers of ovary strendaring, no relationship between thymes gland and general organs of meestral female rabbats treated ath pregnancy 30, malescen of sex, on postmetal development of gravial organs m alliano rei, 118, recent program in study of sex, 130, resistance of overy to gonadotropec, 410, in relation to reproduction, 139 reference of, of pregnancy on growth of bectern, \$41

Humanus, Fractures of upper extremity and shaft of, m childhood, 143 predisposition in estructiondritis de-secant of capatelless of, 440, non-muon in fraction of shadt oil, 555

Hydatel schmomores, Intermediate and transferral patholycul forms between, and als solar echomocous in man, 567
Hydrocyballas, Treated by trettero-arachisoid and system-dural anatomosis, 301

Hydronycha, Rocatganolopcal analysis of ependysol canal in, 5 5 Hydronephronic Pathological and experimental production of dynamic, 346 surgical treatment of, 545 dynamic, and sympathectomy of urster 545

Hyperparathyroschem, Operative treatment of, 174 Hypertherma canad by short wa ea, 17

Hyperthyroidism, In negro, 20, remissions in, induced by prignancy urini extract, 407

lfypoglycamia, action on certain fermentative processes

in tumor tissue of substances causing, 104

Hypophysis cerebri, Rount, ero'ogical appearance of sella turnen in cases of adenomata of 23, production of testicular descent with principle of anterior lobe of obtained from pregnancy urine 45 46 extragenital chononepithelioms in male with positive anterior pituitary lobe reaction, o. intermediary lobe of 95 hormones of, in menstrual blood 1-0, relation of to carbohydrate metabolism, 160 effect of castration on anterior lobe of, of female rate 107, surgical treat ment of tumors of and surrounding, .o. 303 nature of ovary stimulating hormones 2-9 rountsen study of tumors of and surrounding 307 deformation of sella turcica by tumors in pituitary to-sa 308 pri hypophysical hormonuria in malianant tumors of uterus, 330 recent progress in study of sex hormones 39, interrelationship of adrenal cortex and anterior lobe of, 373, action of extract of thymus and on contractions of uterus, 427 roentgen treatment of tumors of, 512, hormones in relation to reproduction 339, melanucy te reaction of preparations of and urine of cancer patient, 500

Hypothalamus, Relation of to carbohydrate metabolism

TCTERUS, See Jaundice

lleitis, Roentgen diagnosis of regional 4"-

lleocacal sphincter, Transplantation of, in anastomosis

between small intestine and colon 422

Heum, Adhesion of terminal, and ileus of adherent terminal 112 ulcerations of, following roent, en therap) 154 lleus, Adhesion of terminal ilcum and of adherent terminal

Incision Advantages of large muscle splitting in surgery

of flank, 31

Infection, Treatment of infected wounds, 149, treatment of pyogenic, and its sequalæ, 149 relation of typical Hodglin's disease to 251, treatment of pyogenic surgical, with artificial gastric juice 257 significance of bacteria in surgical 257 changes in cell picture in bone marrow in diseases due to tot, pyeloperistalsis characteristically altered by 162, relationship of to postoperative pulmonary complications, 460, latent pathological in tissues removed from more common operative nelds, 570

Inflammations, Treatment of phlegmonous, with cod

liver-oil ointment, 461

Inguinal hernia, Late results of radical operation for, 30, companison of operations for 322

Insulin Action on certain fermentative processes in tumor tissue of substances causing hypoglycæmia 164

Internal saphenous vein Preliminary high ligation of, with injection of sclerosing solutions in treatment of vari cosities, 248

Intervertebral joints, Diseases of, 450

Intestine, Intercostal hermia of large of spontaneous origin 29, malignant tumors of large intestine 33, ulcerations of stomach and small following toentgen therapy, 154, absorption of dextrose and water by small, 159, tumors of small, 326, diverticula of small, 326 transplantation of ileocæcal sphincter in anastomosis between small, and colon, 422, action of anaerobic and aerobic bactena on surviving small, of rabbit, 476 contusions and ruptures of small in closed injuries of abdomen,

Intestines Cause of death in high obstruction of 32 observations on chlorine urea and water in high

obstruction of, 32, late stenoses of, secondary to hermal incarcerations, rrt, effect of adrenal cortical extract in controlling shock tollowing injection of aqueous extracts of closed loops of 160, suprarenals in acute occlusion of, 217, 50-called enterochromaffin gland of \_17 anomalies of rotation of, as cause of obstruction of 325, functional derangement of, fol lowing abdominal operations 325, danger of sudden deflation of acutely distended in late low obstruction ot, 3.0 calcineation in tuberculosis of, 5.6, Stierlin's jump and hyperplastic tuberculosis of 330 painful abdominal conditions in childhood 535

Intratracheal anasthesia, Technique of 259

Intravenous drip, Therapeutics of, 560 Intravenous injections, Massive 500

Intussucception, In miancy and childhood 111, invagination and spasmophilia 472 intestinal at excal tumors, 527

Iodine Schiller's test with, for early squamous-cell carcinoma of cervix, 2.6, correct and incorrect use of, in treatment of gotter, 304

Indized salt, Thyroid surgery as affected by generalized use of, in endemic goiter region, 197

JACCINA Determination of liver function in tottemias of pregnancy by harmoclastic reaction of, 436

Jaundice 222

Jaw Radiotherapy of cancer of, 19, pathogenesis of local used hypertrophic osterus of maxillar, So treatment of fractures of neck or mandible, especially in chil dren, 194 fracture dislocations of head of mandible, to4 treatment of malignant disease in upper, 401, precancerous epitheliomatosis of palate and, 403

Jejunal alimentation Jejunostomi with, 528 Jejunostomy with jejunal alimentation 528

Jejunum Spasm in ctiology of peptic ulcers 327, collective inquiry by Fellows of Association of Surgeons regarding ulceration of, 524, clinical and roentgenological study of postoperative peptic ulcer of, 525
Joints Principles, application and results of short wave

diathurmy in, 370, behavior of certain reileres of peri osteal and articular origin in surgical anasthesia, 562 See also names of joints joint conditions, and opera-

KERATITIS, Use of thyroxin in, 298 Keratoplasty, 91

kidney, Cancer of, A, relation of physiology of upper urinary tract to elimination utography, 44 pathologico-anatomical changes in the organs tollowing hamolytic shock, 55, pyelographic injection of penrenal lymphatics, 130, enects on upper urinary tract in dogs of incompetent ureterovesical valve, 131, chromocystoscopy with phenolaulphonphthalem in diagnosis of function of 131, pyeloperistalsis characteristically altered by infection, 162, traumatic lesions of, and their treatment, 235, neoplasms of, 230 237, hæmostasis during nephrotomy for large calculi or, 340, polycystic disease of, 346, etiology of stone, 340, cutaneous ureterostomy for persistent cystitis after nephrectomy for tuberculosis of, 347, internal topography of arterial system of and pelvis of, of human beings and domestic animals, 442, treatment of bilateral calculi of, 444, pre-operative irradiation of massive tumors of, 444, nephrectomy versus autonephrectomy in tuberculosis of, 545, experiences and end results in injuries of urmary passages, 347

Kirschner operation for herma, 322

Knee, Arthrotomy of, 52 treatment of suppurative arthritis of, 357, diagnosis of meniscus injunes by arthrog-

raphy 45 cogin of rapture of faterarticular liga-remts of, 555 kymororatgraography of beart, 368, 466 Exploracehous and spenal cord, on

ABIUM mapus, Compristal ectopse of every and tube to 430

Labor Physiology and pathology of pehic joints in relation childbearing, 40, pathological anatomy and patho-geness of ordens of cerviz sterr during, 47 obstatucal

samuthenes radaced the evenes sodium, 43 sensibebty of female internal grantal organs and pass in i conduct of, in placenta pennia, with special reference is stulp farceps, sy officery and minority of certain procedures intended to direct course of

prognoss and management in how presentation, 1 spontaneous transformation of face presentation nile ecoput presentation during period of expolutes, 32; relation between partly and pathological object-nics, 34, thermo-electrical researches in obsteriors and gynecology 338, roentgenological study of mechanims of engagement of fetal head, 543 treatment of surmed raparies following childherth, 145 action of thymophysia on contractions of, 427 ergotemen in 417, smalls obtained six thymophysm in cases of calc labor passe, 438, delayed repture of lang of aters, 438, method of dealing with alteromaing head, 459, obstetrical programs of large pterms fibrocasts.

Labyratia, Importance of ravesingston of equilibrium

apparatus for judgment of old beed injuries, 307 Lantation, Acute purcless masters thereon so increasing secretion of rulk with antickyroid protective sub-

MARKER, 33 Lactic acid, Hebicator of of blood in suprarrial manife-

comy 15
Laryspectomy basismy physiology and development of speech after 5 Larynz, Tuberchioms of 22 96, 93, treatment of supragiottac tumors, 95, treatment of tuberculous of, 90 strapping of ocal bords, or most genological study of

toberculous of, oil, rocatgen therapy of spithehomata of, 99 mahaman directs, promalignant conditions, and conditions unrelating realismancy of too results of treatment of malagnant tamors of us period from gas to 1932 you income of, of introduc origin, you, cancer of, 304, 5 treatment of abaces of, 407 treatment of cancer of, by divided does of external radiation, and, pha Lateral series, Thrombous of, or

Leg. Rossiges therapy of visconotor distribuscus of extraorties, 141 thrombons of vans of lower extramsties and palescenty embolism, 144, 36 chambration, etiology and differential diagnosis of lymphosferse of extremeties, 60, congenital peruderthrone of, treated by meserve bone graft, 450

Lens, Dislocation of 907

Leucopiakus, And cancer of cervis, 7 of pesse, 546 Louissenia, Quantitative histological studies of normal and pathological bose marrow 55 myelogenous and lymphatic, and alculamous associated ath pregnancy 3 states of publishes of bone married 6 minduction in, go treatment of, by Heublets's method of continuous arradiation of entire body 466

Laguraget, Anatomonfonctional study of round, of femour

Lip, Radiotherapy of cancer of, a mend cell, spendle-cell and series-grain surcomate of, 102 Liber Pathelogica-anatomical changes in the organs follosing armelytic shock, 55 functional specificity of certain repose of, fraction of alternated mys managed arounds of, ft, Takata tra-rescion in disease of, 275, solitary promoulated advance of 434 determination of function of, in termina of 434 Griermanico et programa di Jacches, 436 trestment of carricon of, by Talma operation, 532 anatomical changes in, in THE STOCKHOOLS OF HIGH seie of abdomes, 113

Lobertony Development of 10 mas, 17 magis played th open pirara, of one stage, for brenchecture. soft for carcanona of hear 17

Lunate bone, Necrosa of, 440, condensation of, 542 Lane. Non-operative error operative measures in tires-

ment of taberculous of 26, tystic discuss of, 27 development of lobectomy and promisectory in man, 277 reaction of these of, in rabbets to organic foreign bodies in bronchi, of, mycross of, 107 gas cysts of, oy stagle stags lobertomy tils open pieces, set surpcel treatment of currenous of, tol, severe conbral symptoms after operations on, of, therecognisty arms poromothorax for tuberculous of 307 channi recognition and treatment of non-paragin system disease of 307 one stage lobationy for breathinties, 308, therecopiasty in balateral ca crosses teleprolone of, sof, changes in, following treatment of cancer of brunst by postenged fractional method, sin-tens of operation for absent of, typ, raffirmes of degrees of distriction upon blood flow through, 112 abserts of, 114, increasing suportance of surgery in teleroulous of, 114, serial broachography is early diagnosis of bronched carmoons, 115; melysus dualité of, 3 5 primary carminens of, 3 5 broadest carminens, 3 6, classification of baser/segress co-COMMA IN PRINCIPLE AND PROPERTY OF THE PROPERT relation to morning and transport, 176 branchial carcasses, 3 6 lobactory for carcasses of, 317 total reposal of right, for carcasses, 315, results of extrapleural theraceplesty in treatment of tubertulems of, 418, sorthods of discreasestion of metastases in supractivitation, convent and ambig lymph modes, respectively, in cancer of, and their relation to lymph wands of, and, prevention of conplacations in, in surgery of standard by pre-operative vaccination, 450, problem of pulmonary embelsion, 460, relaterables of sufection to postoperative comptications in, soo, beenchingmic tancer combined with tubercolous of, 318, promary surcoma of, 5 9, embolun of the

Lupus valents, Combination of rossigm thereby and most best therapy in, 50 Lymph glands, Esperantsial studies of hesing of, and

natoplastic transplants of, 146, slac lymphediacctury with conductor in treatment of cancer of carrie, \$17 methods of dissenseation of metastrace in supra the scalar convent, and anillary to polynomery cancer and their relation to lymph seeds of large, 419

Lymph vessels, Pysiographic rajection of pentral, 100 reenterpological method of examination of us must and atomain, of morthods of descendanting of mater-bases in supersolaricular cervical, and smilery lymph nodes, so polesomery cancer and their relation to, of Lymphoblestens, Correlation of hestological changes and

cleaned symptoms in trachated Hodglin's ductor and lyamph modes of 140, stanlogy of, 145 Lymphredens, Classification, ctrology and differential

character of, on beets of 300 cases, 100 Lymphograpolome regionale, 548, referensistey strictions of rectum and their relation to, 5

Lymphogranulomatosis, Quantitative histological studies of normal and pathological bone marrow, 55

Lymphogranulomatosis maligna, See Hodgkin's disease Lymphosarcoma, Irradiation in, 252

 $M^{\rm ALIGNANCY},$  See Cancer, Sarcoma, names of organs Mandible, See Jaw Mastitis, Acute purulent, during lactation, 26, pathogene-

sis of cystic, 416

Maxilla, See Jaw Maxillary sinus, Chronic pyogenic inflammation of, and other accessory sinuses, 509

Mediastinum, Surgical treatment of perincural fibroblastoma of, 29, sarcomata of glands of, 321

Megacolon, Anal achalasia and, 221

Meibomian gland, Adenocarcinoma of, 301

Meninges, Angiomatosis of, associated with calcifications of brain cortex, 101, primary melanotic tumors of central nervous system and its membranes, 307

Meningiomata, Parasagittal, 100, attached to mesial part of sphenoid ridge with syndrome of unilateral optic atrophy, defect in visual field of same eye, and changes in sella turcica and shape of interpeduncular cistern after encephalography, 309

Meningitis, Forced drainage for treatment of, secondary to ear and sinus infections, 18, pathways of infection

in suppurative, 100

Meningo-encephalitis caused by cysticercus cellulosæ, 514 Menorrhagia, Indications for use of progestin in treatment

Menstruation, Hypophyseal and ovarian hormones in menstrual blood, 120, endometrial findings in func tional disorders of, 120, choline in menstrual cycle, 538, and menstrual disorders, 539

Mesentery, Primary tumors of, 323

Metabolism, Relation of hypophysis, hypothalamus, and autonomic nervous system to carbohydrate, 166, application of thyroxin as an alterant of 298

Metacarpal, Unusual luxation of first, 246

Metals, Influence of certain, on fixation of mineral com ponents in cultures of osteoblasts, 55

Microcytes, Presence of, in round-celled sarcomata as histological evidence of sensitivity of these tumors to

irradiation, 59 Milk, Increasing secretion of, with antithyroid protective

substances, 233 Mouth, Radiotherapy of cancer of, 19, comparison of apparent end results in cases of carcinoma of, in rela tion to length of follow up, 94, malignant neoplasms of upper respiratory tract in young, 302, comparison of protracted external irradiation with X rays, 5 gm. radium pack, and 100 mgm radium pack in treatment of neoplasms of, 467

Mucin therapy for gastroduodenal ulceration, 11

Mucocele, Experimental production of, 222 Mucus, Secretion of, by epithelial cells of gall bladder and

experimental production of mucocele, 222

Muscle, Treatment of permanent paralysis of deltoid, 453 Muscles, So-called "primary" tuberculosis of, 50, shock due to trauma to, 159, ultraviolet rays in healing of wounds of, 256, research on myopathies, 550

Myoma, Spontaneous rupture of capsule of, 427

Myopathies, Research on, 550

Myositis ossificans, Progressive, 350

Myxœdema in children, 196, 510 Myxomata, Histological and critical study of, 269 Myxomatoid tumors, Histological and critical study of, 269

NAVICULAR bone Malacias of of wrist, 50, treatment of fractures of carpal scaphoid, 142

Neck, Radiotherapy of cancer metastases in glands of, 19, clinical syndrome of short, and very rare malformation of heart in newborn infant, 61, anatomical and clinical study of parapharyngeal space, 94, roentgenological study of tuberculosis of, 198, malignant epithelial tumors of, 406

Necrosis, Following irradiation, 59, 155, 157, 265, pre-

vention of, in plastic repair of breast, 206

Negro, Hyperthyroidism in, 20

Nephrectomy, Cutaneous ureterostomy in persistent cystitus after, for tuberculosis, 347, versus autonephrectomy in renal tuberculosis, 545

Nephritis, Painful and hæmaturic, 236, value of decapsulation in cases of medical and surgical, 443

Nephrolithiasis, Etiology of, 346

Nephrotomy, Method of hæmostasis during, for large Lidney calculi, 346

Nephro ureterectomy, New method for complete, for primary tumor of ureter, 347

Nerve, Malignant tumor of left tibial, 25, operative treatment for palsy of facial, 310, 414, surgical anatomy of presacral, 311, pathological conditions of abducens, 402, paralysis of trochlear, 403, paralysis of oculomotor, 403, tumors arising from sensory root of trigeminal, in posterior fossa, 414, paralysis of facial, treated by cervical ganglionectomy, 414, resection of presacral, for relief of pain, 471, spasm of oculomotor, in Gradenigo's syndrome, 508

Nerves, Variations of alimentary glycæmia induced by alcoholic injection of splanchnic, 203, effects of unilateral and bilateral resection of major and minor splanchnic, on essential hypertension, 204, normal shadow of peripheral, and their pathological change in injury and tumor, 415, of distal colon, 423, surgeon and pain, 471, isolated tumors of peripheral, 516

Nervous system, Relation of autonomic, to carbohydrate metabolism, 166, primary melanotic tumors of central, and its membranes, 307, relation between sympathetic, blood calcium, and parathyroids, 572

Neuralgia, Bilateral trigeminal, 202, glossopharyngeal, 414

Neurmoma of orbit, 18

Neurofibromatosis with cutaneous and bony changes 516 Neutrophile cells, Origin of toxic granulations in, in circu-

lation, 161 Newborn, Chincal syndrome of short neck and very rare malformation of heart in, 61, vaccination of 268, prenatal medication as possible etiological factor of deafness in, 301, thermo-electrical researches in obstetrics and gynecology, 338, influence of thymectomy on genetic activity and offspring, 340

Nipple Paget's disease of, 416

Nose, Results of treatment of malignant tumors of, 302 so-called mucoid cysts of, 404, therapeutic use of streptococcus serum in infections of, 406

Novocain, Periarticular injections of, in management of sprains and traumatic arthritis, 550

Nucleus pulposus, Herniation of, as cause of compression of spinal cord, 203

BSTETRICS, Endothelial sign in, 122, reaction of blood to guttadiaphot in, 128, evaluation of clinical statistics on relation between parity and pathological, 234, thermo-electrical researches in, 338, ergotamin ın, 437

Occiput presentation, Spontaneous transformation of face presentation into, during period of expulsion, 232

Oculomotor nerve, Paralysis of, 403, spasm of, in Gradenigo s syndrome, 508

Esophagoplasty, Anterothoracic, for impermeable stricture of cesophagus, 318

(Esophagus, Anatomy of abdominal porture of, anterotheracic traophagophary for principabile stree ture of, 3 & cancer of 3 9; surgical exposure of, 250-smallers ed foreign bothes, 250; melications and late results of treatment of cicatricul struous of, to t

primary talerculous of, 5 | disphragmatic herica t histing of, tile abort, and thoracic stomach, 321 (Letro, Tamors of breast related to, as

Offspring, Influence of thymectomy on, 540 Oil, Treatment of wounds by local application of whale,

15' cod liver es treatment of fresh womals, huma. and phlegomous inflammations, at

Old tubercules, Treatment of hemophiles with, 5 Other dyschondroplams, 150

Operation, Water balance in surgical conditions, p changes to blood sugar level amounted the 6 pe monary embolines following, 148, acute dilutation of stomach complicated by perfocation after 142; Braver's, for cardiac ymphysm, son states of enotement after 55, indications for early 270, functional derangement of intestine following abdominal, 225; wound complications after 1641 evaceration after ads, premieral fatals after 413, presention of pulmosary complications after on storach, are, relationship of injection to pulmonary complications after and pathographics of parotype after an element and roentgenological study of peptic sicer after 515 treatment of turbons of h er by Talms, 53s bad risks for, 570 latent pathological encrobers in tumose removed from more common operator fields, 570

Ophthebous, thergy theory of sympathetic, soft Ophthalmology Ad anteres of intravenous event anes-there is, 93, the of thyrotta is, as local agent and as

metabobe elterative, soil, choical science and, pos Ontic casal. Unlateral central and anoxiar prototus produced by fracture extending rate, or

Orbit, \estimate of, & kermango-endothelionia of removed through transcrazal approach, 9 Orchita. Acute taberralous enabdymens and enablymo-

Orchitat, 34 Omnicultons, Post traumatic, 36

Ontesta tuberculosi multiplica dystica, 540 Onteoblasta, Infloracy of certain metals on fixation of numeral components in cultures of, 554
Outcochondrian deformants sevenals. Classification and

correlation of and related conditions t lam. 48 Osteomalacia, Subcapeular cataract us, 207

Outcomy cirtie, Scieroscag, 43, acute, 48, new attempt at treatment of chrome. so, m first years of kie, age See also marnes of bones

Osteopetrons, 349
Osteoscherons, I respite generalmets, 349, congressed, 349
Osteosynthesis, Value of modern methods of by external fireton madelts, 357

Otata media. Oculometor ners anama in Gradenego syndrome sol

Otoscherosas Problem of as

Overy Results of postoperates X my therapy in our cinoma of 18, blood transfersion in certain gynecolonical conditions, all action of governorment stances on. 8. also of postoperates roentgen urada ation is carcinome of 9, hormones of in menetroal blood, 20, sensibility of female internal general temperature and vacular reactions in OTTAGE. treatment of inflammatory decrees of female generals with heat, as lymphorarconatoms of female graital orpins, 3 effect of custration on anterior hypophysis of female rat, 67 matters of hormoons stimulating, 230, endometrous as mandentation of dysfunction of sy appendiculas in gynecology 30, mentions

therapy in syncological inflammations, 161, grassloss-cell tumors of 137; postsetal development of general organs in alliano rat, 138, thermo electrical researches in solutetries and graceology 112, retrait progress in study of sex becauses, 110, rets and segmentary arrangement of, 410, congruid ectops of and tabe to labara marms, 410, remarance of to groundstrope: hormones, 450, constitutional pro-dis-

position to immore of graftal organs in female 411 enform teratoms of, 508 Ovalation, Time of horses

DAGET'S ductor of repris, 4 6

Pam, Raisef of retractable by intraspend injection of alcohol, agr problem of sensibility of female internal groutal organs and, is synerological discuss and labor aspects of, s66 surgross and, ar

Palata, Radiotherapy of cancer of 0, pre caserrous epi theiseastons of, 405 "push back operation in

margery of chelt, and Pancress, Fatala of cured by pancreatographestomy 244.

CYTES IN THOSe of, 436 Pancreatitle, Conservative treatment of acute

erdematous, 24

Panersatogastrostomy Panereatic fatals cared by 24 Papellordenn, Ophthalmic symptoms in brain sheres, at Paralyses, Treatment of spectic, 4 operative treatment of facial, 5 o, 4141 of noti ideal cy mencies, an permiterial facial, treated by certical gauginosectous

414 Unational of permanent, of deliced muscle, 455 Parametrana. Retraction of forest and left, in hyponic of prostate, 414

Parapharyogral space, Anahomeral and chucal study of, or Parasapital sersinguenata, on Parashyrod fands, Transplastation of h ing grafts of od, treatment of hyperparathyrodom, 174 serger)

of articipation but ten sympathetic nervous system, blood calcum, and, 578

Parsty Relating bet een and pathological obstetres, 134 Parotid gland, Benign and malignest tumors of, and their amenabelity to core, 6

Parotins, Pathograms of postoperative, 481
Patelle, Treatment of preducible congrated dislocation

of 137 Pairlis partits, 113 Payanz treatment, In perspheral oblitarative arteral

diseases, 36 ; na artercoclerotic peripheral secular discuses, 44 Pelvis, Physiology and pathology of joints of, in relation

to chaid bearing, so; architecture of, 97 new messagement for estimating depth of true, 10 Penn, Mahmant neo-carcinomatous tamor primary is

corpora to etnose of, with mercal and ement metaltrace, 33 treatment of malignant discuss of 3% leutoplakin of, 545

Persondate, Tuberculous, 200, pathological austomy of

Personalism, Braner operation for cardine symphysis, 20 Personne, Treatment of surpoul inpures following child-

buria, 545 Permeteum, lichtwar of reflexes originating in, in surposi

Pempheral serves, Normal shadow of and their patheanesthesa, 56 lopical change in injury and tumor 4151 molated

ternors of, 1 6 Personnal cavity Personation of carcinoma of atomick rate general, 41

Pentoneum, Paraconymous of of appendicual segue, 15 Perstonine, Bule, 3 treatment of supportative, by altri-solet light, 60, so-called pressary cryptogracus of metastatic streptococcic, 213, time of operation for, 270, clinical and microbiological studies of, and its prevention and treatment with serum, 322, painful abdominal conditions in childhood, 533, cryptogenetic, caused by pneumococci and related bacteria,

Pes cavus, Treatment of, 454

Pharynx, Anatomical and clinical study of parapharyngeal space, 94, treatment of lingual tonsil and lateral bands of lymphoid tissue in, 196, roentgen therapy of epitheliomata of, 199, results of treatment of malignant tumors of, 302, malignant neoplasms of upper respiratory tract in young, 302, anatomical study of peritonsillar spaces, 303, use of streptococcus serum in infection of, 406, treatment of cancer of, with divided doses of external radiation, 408, comparison of pro tracted external irradiation with X-rays, 5 gm radium pack, and 100-mgm radium pack in treatment of neoplasms of, 467, fractional or divided dose method of external irradiation in treatment of cancer of, 564 Phenolsulphonphthalein, Chromocystoscopy with, in diag

nosis of kidney function, 131 Phlebitis, Spontaneous, occurring during course of development of uterine myomata, 223, obstetrical, of subacute venous septicamia type, 233, thermo-electrical researches in obstetrics and gynecology, 338, blood changes in clinical thrombophlebitis and their diagnostic importance, 558

Phosphorus, Influence of local excess of calcium and, on

healing of fractures, 53 Phrenicectomy in pulmonary tuberculosis, 314

Pilonidal cysts, 372

Pilonidal fistulæ, 372 Pituitary gland, See Hypophysis cerebri

Placenta, Relation between parity and pathological ob stetrics, 234, behavior of blood sugar after injections

of extracts of, 440 Placenta prævia, Conduct of labor in cases of, with special reference to scalp forceps, 127, relation between parity

and pathological obstetrics, 234

Plasmocytoma and rhabdomyoma of paranasal sinuses, 19 Pleura, Severe cerebral symptoms after operations on, 108, single-stage lobectomy with open, 108, changes in lungs and, following roentgen treatment of cancer of breast by prolonged fractional method, 264

Pneumectomy, Development of, in man, 27

Pneumococci, Cryptogenetic peritonitis caused by, and

Pneumolysis in treatment of pulmonary tuberculosis, 314 Pneumothorax, Thoracoplasty versus, 207, in surgical treatment of pulmonary tuberculosis, 314, artificial, in

Polyarteritis nodosa, Gangrene of fingers and toes in, 144 Pregnancy, Blood transfusion in, 38, active expansion of uterus according to Sfameni and its value in physi ology of, 40, physiology and pathology of pelvic joints in relation to childbearing, 40, production of testicular descent with anterior pituitary like fraction of urine of, 45, 46, endothelial sign in obstetrics and gyneof thyroid gland hormone abnormal conditions of, and sugar content of blood during, 124, content of thyroid gland hormone abnormal conditions of, and sugar content of blood from the conditions of, and sugar content of blood from the conditions of an analogous and lymphatic of mother and child, 125, myelogenous and lymphatic leukæmias and aleukæmias associated with, 125 neurovegetative state in pyelitis of, 126 pernicious vomiting of, 126, reaction of blood to guttadiaphot in obstetrics, 129, relationship between thymus gland and genital organs of immature female rabbits treated with hormones of, 230, relation between parity and pathological obstetrics, 234, thermo-electrical researches in

obstetrics and gynecology, 338, gonorrhœa and, 341, analysis of errors inherent in tests for, based on Aschheim Zondek reaction, 341, influence of, on tumor growth, 342, remissions in hyperthyroidism induced, by extract of urine of, 407, differential diagnosis of, 435, ectopic, 435, autogenous vaccines in treatment of pyelonephritis of, 436, determination of liver function in toxemias of, by hæmoclastic reaction of Jacchia, 436, incidence of hiatus hernia in, and its significance, 523, influence of hormones of, on growth of bacteria, 541, heart disease complicating, 542, obstetrical prognosis of large uterine fibromata, 542

Presacral nerve, Surgical anatomy of, 311, resection of, for

relief of pain, 471 Proctitis, Pathogenesis and treatment of proliferating and stenosing, 220, simple hæmorrhagic, 330

Proctosigmoiditis, Simple hæmorrhagic, 330 Progestin, Indications, for clinical use of, 433

Projectiles, Migrating intravascular, 359

Prolan, Value of in treatment of abnormal uterine bleed-

ing, 37 Pronation, Pathogenesis of painful, in young children, 552 Prostate, Autopsy findings in cancer of, 45, calculi of, 45, 446, carcinoma of, 45, treatment of hypertrophy of, by new "shrinkage" method, 239, comparative effects of various high frequency current and of thermal cauterization in resection of, 239, surgery of obstruction of, 348, influence of hormone of, on formation of bony callus, 573 Prostatectomy, Harris technique for, 44, surgery or pro-

static obstruction, 348

Prostitutes, Specificity and behavior of gonoreaction in, 230 Pseudomyxoma peritonei of appendiceal origin, 35

Psychic trauma, Abortion due to, 543

Psychoses, Postoperative, 255

Puerperium, Severe anæmia in, 128, obstetrical phlebitis of subacute venous septicæmia type, 233, relation between parity and pathological obstetrics, 234, thermo-electrical researches in obstetrics and gynecology, 338, practical measures in prevention and treatment of sepsis in, 343, clinical study and treatment of late hæmorrhage in, 343, modern management of fever in, 344, treatment of surgical injuries following childbirth, 345, choline in menstrual cycle and, 538

Pulmonary embolism, 460, 561, as complication of trauma, 144, following surgical operation, 148

Purpura hæmorrhagica, Treatment of Werlhof's disease with scroplacental, 249

"Push back operation" in cleft palate surgery, 405 Pyelitis, Neurovegetative state in, of pregnancy, 126

Pyelography, See Urography Pyelonephritis, Autogenous vaccines in treatment of, of pregnancy, 436

Pyeloperistalsis as characteristically altered by infection, 162

Pylorus, Operative treatment of hypertrophic stenosis of, in infants, 324

Pyogenic infection, Treatment of, and its sequelæ, 149 Pyonephrosis, Gonococcal, 131

RACHISYNTHESIS, Indications for, 356 Rachitis, Adult and fetal, 549

Radionecrosis, Clinical study of, 155, pathological manifestations in, 157

Radiosensitivity, Problem of, 262

Radio-ulnar synostosis, Study of congenital, 352

Radium, In treatment of parotid tumors, 17, in treatment of cancer of mouth, 19, 94, 467, in treatment of uterine hæmorrhages of benign origin, 37 335, presence of

microcytes in round-celled merconata as histological evidence of sensitivity to, 50 comparison of apparent end results in relation to leanth of follow-up in cases of Cartinopea of mouth treated with, pay use of in car-cusoms of bladder 3 chancel study of radonormes, 15: pathological manufestations in radiosecrosis, 17: statistical review of 500 cases of property rocks carelnome treated with, 250 illes lymphadenerhous we'b. treatment in cascar of cervit, 7; wreteral octionica following implentation of into cervice, 37; so treat irotarms, 5, problem of resultivity to, rés, rés; classification of tamers according to remailwrity to, rés; action of, on these cultures, rés, accross following treatment with, soil treatment of epitheliomate of mira ith, soll; in treatment of cancer of pasal acressory sources, 301; results of treatment with, of mala-nant tumors of our most, pharynx, and larynx, nor in treatment of malapant discuss of long, 1 m treat ment of cancer of cosphagus, 3 9, in treatment of carcinome of cervix, 126 limitations and dangers of lotts ofcrise application of in carcinome of body of uterus, 136 in trestment of bone metasianes from breast caremona, 170' in treatment of epubelions of check, 405 in treatment of cancer of pharyer, tomat, and extranac laryer, toff in transpart of persetent val at pourths, 43 comparison of, with X-says in treatment of mosphesics of month and threat, 487; relative value of surgery tocktors rays, and, in curre-scens of breast, 5 ? Interstand treatment with, in curemoms of breast, 5 7; histological classification of cancers of uterms cervix and relation between emoth structure and results of treatment with, 117

Rachus, Congruetal pracetosis of, and aims, a Radon. Use of in treatment of permetent, wher provides.

Rannertion, See Sympathericary Raymod's discuss, Rocatges therepy in, 143 cases of failure of operations for 340

Rection, Malayant import of 33 herit ampointion of 34 inflammatory strictures of, and their relation to lymphogramicos regulate, 3 pathogeness and trest mept of proliferating and memoring processe, asso; statistical review of 500 cases of primary executores of under radiation treatment, 230, cancer of, 4341 graded

persone abdominal resertion of, 530, 53 Reproduction, Infrance of thymectomy on, 140; hormones in relation to, 510, promoted administration of threirs

and therefol to rate and its bearing on, 410 Resouratory tract, Malagnant neoplasms of upper, in young,

Return, Metastatic caremous of 15, humanyoblantonstous cysts of, any detachments of treated by dis-

thermy 95; experimental datachment of, post da-tachment of, presenting unusual features after opera-tion by surface dusthermy 404, operator results in detechment of got Rhometen, Teberchous, 38, checar preliferative

arthritis la patiente ente rheamatic fever 448 Robe, Acute esteomywhite of, caused by ordinary pur court,

Rickets Acrelt and fetal, 540

Ruin, Red surpral, 570 Roratges rays, Destribution of in human body 368

Romiton ray diagnoss, Of adenomata of hypophysis. relation of physiology of upper armary tract to the meton megraphy 44 of Brodie chrome boss abscens, 42, of dynchondroplesse, 40 importance of intracranial pressure in curulatory conditions of brane in arteriographic soulisation, of of natracranial tennors, 600 pyriographic salection of processi lym-phatics, 630° disgnostic nees of thornes double, 54, of changes in py doperatains due to infection, rise of changes in petrous portion of temporal bone without cinscal manufestations, 951 of inferences of larger and sack, 58, exceptatography in children, see sociation appearance of normal muchas of colon, 18 soratera method of examination of lymphatic system to man and assemble, § 1 timests of hypophysis and hypophysical region, perpetuages in path throce and almost of interpretunction custom shows by encephalogripay is cases of measupponets attached to measu eart of sphenoud ridge, yop, of lang alacess, \$14, of broachiel currenome, 3 5, 3 6; of anomalies of cales, 377 roomigen appearance of muccoss of colon in paths lopical conditions, 138; Steries nump and lyper plastic latestand inherizations, 110 neutron of error in and cholecystomaphy and presented methods of carrection, 333; rossi,etsological study of mechanism of engagement of fetal head, 343; results of antercognishing the cheeses of arteries and torsors, 360, of cashing checase, 362, 464 manifectors of absormally shaped subarrachood cuteros as seen in encephalogram, 444, normal shadow of perspheral part to and their patho lopical change in injuly and innor 4 33 of reposal sletts, 4s 3 recutges assistanted studies of internal topography of arterial system of hubery and man petric of human beings and domestic nameds, 4435 of permicus paymes 452; information obtained by artistopraphy is certain success decrees of extremen restructional sestiman of spentymal cased in hydromycia, 5 5; of postoperative protes sicer 505, of tennors of bladder 546 of circums berson, 551; enteral study of artenography 538; dangers of artenography 538

Roratgen my treatment, Of pasoind tumors, 6, of casers of month. 9. 94. 467 of stress Mahers. operative, in carcinoma of every 18, 9, of tensor of tastode, 45; prepares of tensorytra in round-called partners as histological evidence of practicity to irraduation, 50, necrose that to, 50, 55, 57; of som-nomals, 50, combination of and most best therepy in layous valgaria, 103 comparison of apparent cod-results of, in cases of carcinoma of aposith in relation to length of follow-up, p4, of anomater characteristics of extremities, 243 correlation of hestological charges of categories, 243 corporation in minimal and chance a proposition to brinding the frequency and lymphoblastoms bysoph modes, 1,65 of cases: of also, 54, add, adversation of interact and spall membrane feet modes. 544 address on certain formerstative processes in tempor tissue of substances causing hypothesis. glycomes, \$41 of spatheleonate of pharyax and larger, oct primary rectal carcinoms under 200 and thec hyppandenectomy in money of curves, any of hypphoserenza, Hedekm's danses, and leukarmen, 251 less of radioscriptivity 1613 of gynacological milesmatient, stip chamication of tracers according to radiography encist, stip changes in large and pieces following, of causer of branch by preimped fractional shod, sat of epstheliomets of skin, sad, remits of of malignant temors of ear, nose, pherynx, and suyar, or manipasas tumors as sat, moss, honorymi, san any or, pays of caracters of larges, part, of symmogration, pays of abscess of long, just of cases of caracters, just, of caracters at order 1, 10% describes of receives mays as learness body job, reasons for faster in, of caracters, just of explantations of thesis, 40% of caracters of planyars, tunall, and extreme larges by caracters of planyars, tunall, and extreme larges by divided doses of external, sol; technique and sentis of an carrianne of breast, 417 pre-operative, of mass are tumors of kidney 444; comparison of wick not

of 5 mgm. and 100-mgm radium pack for protracted external irradiation of neoplasms of mouth and throat, 407, Heublein's method of continuous, of entire body for generalized neoplasms, 468, of pituitary tumors, 512, relative value of surgery, radium, and, of carci noma of breast, 517, of tumors of bladder, 546, of painful conditions of brachioscapular region 550, of carbuncles, 561, of cancer with extremely hard rays, 564, fractional method of, in cancer of pharynx tonsil, larynx, and paranasal sinuses, 504, influence of frac tioning of on end results of, 504, modified Coutard,

Rosso's test, Statistical results of, in 11,000 cases of cancer,

Round ligament, Anatomicofunctional study of of femur, 243

SACROCOCCY GEAL chordoma, or 515 Sacro-iliac surbery, 356

Sangos, Hæmostatic properties of, 559

Saphenous vein, Preliminary high ligation of internal, with injection of sclerosing solutions in treatment of vari

Sarcoma, Presence of microcytes in round celled as histological evidence of sensitivity to irradiation, 59 See also names of organs

Scalp, Epidermoidal glioma of, 89

Scalping, Treatment of, by transplantation, 254 Scaphoid bone, See Navicular bone

Scapula, Exostosis bursata of, 242

Scarlet fever, Appendicitis and acute inflammator, abdominal conditions in, 114

Schiller's test for early squamous-celled carcinoma of cer VLX, 226

Schmieden operation for hernia, 322

Scoliosis, And spinal cord, 102, cause and treatment of 332 Scotoma, Unilateral central and annular produced by

callus from fracture into optic canal 92

Sella turcica, Roentgenological appearance of in cases of adenoma of hypophysis, 23, primary melanotic tumors of central nervous system, 307, deformation of by tumors in pituitary fossa, 308, changes in, associated with meningioma attached to mesial part of sphenoid ndge, 309, suprasellar craniopharyngioma 512

Semilunar bone, See Lunate bone Seminal vesicle, Postnatal development of of albino rat,

Seminomata, Radiotherapy of 59

Septicæmia, Obstetrical phlebitis of subacute venous type 233, practical measures in prevention and treatment of puerperal sepsis, 343, modern methods of management of puerperal fever, 344, pathogenesis and climical aspects of colon bacillus, 474, surgical, of exclusively staphylococcal or streptococcal origin, 475, chronic staphylococcus septicopyæmia with prolonged course,

Seroplacentol, Treatment of Werlhof's disease with, 249 Serum, Prevention and treatment of pentonitis with, 322 therapeutic use of concentrated antistreptococcus, of

New York State Department of Health, 373, 406 Serum shock following tetanus vaccination and its treat-

ment, 258 Serum sickness following tetanus vaccination and its treat-

ment, 258 Shock, Pathologico-anatomical changes in organs following

hæmolytic, 55, primary, 159, and trauma to muscles, 159, hæmorrhage in relation to, 159, 267, 472, effect of adrenal cortical extract in controlling, following injection of aqueous extracts of closed intestinal loops, 160, serum, following tetanus vaccination and its treatment, 258, influence of exposure to cold and depmeation of food and water on development of, 372, etiology of traumatic, 366

Shoulder, Exostosis bursata of scapula, 242, calcareous deposits in supraspinatus tendon and subacromial bursa, 242, painful conditions of brachioscapular region and their treatment with physical agents, 550, cause and treatment of round, 552

Sigmoid, Malignant tumors of, 33, right sided symptoms with diverticulitis of, 34, surgical treatment of volvulus of, 114, cancer of, 424, graded permeo-abdominal re

section of, for cancer, 530, 531 Sigmoid sinus Thrombosis of, 193 Sigmoidius, Simple hamorrhagic, 330

Simmonds' disease, 107

Sinus, Thrombosis of sigmoid or lateral, 193

Sinuses, Forced drainage for treatment of meningitis secondary to infections of nasal, 18, plasmocytoma and rhabdomyoma of paranasal, 19, cancer of nasal accessory, 301, chronic pyogenic inflammation of antrum and other accessory, 509, fractional dose method of external irradiation in cancer of paranasal,

Sinusitis, Pathology of chronic, in children, 196

Skin, Combination of roentgen therapy and moist heat therapy in lupus vulgaris, 59, radiation therapy of cancer of, 154, melanotic neoplasms of, 163, experimental alteration of malignancy by intracutaneous inoculation of preserved homologous mammalian tumor material, 165, action of ultraviolet rays in healing of wounds of, 256, treatment of epithelioma of, 268, determinations of temperature of, in obstetrics and gynecology, 338, neurofibromatosis with changes

in, 516 Skull, After effects of head injury, 23, unilateral central and annular scotoma produced by callus from fracture into optic canal, 92, fractures of, 193, importance of investigation of equilibrium apparatus for judgment of old head injuries, 307

Smallpox, Vaccination of newborn infants against, 268

Spasmophilia and invagination, 472 Spastic paralysis Treatment of, 141

Spermatic cord, Torsion of, 133 Spiegel's hernia with strangulated umbilical hernia, 110 Spine, Sacrococcygeal chordoma, 61, kyphoscoliosis and spinal cord, 102, subacute suppurative osteomyelitis of atlas, 352, indications for rachisynthesis, 356, diseases of intervertebral joints, 450, treatment of fractures of vertebral bodies uncomplicated by lesions of cord, 555

Spinal anæsthesia, Subarachnoid anæsthesia, 367, use and abuse of, 562

Spinal cord, Kyphoscoliosis and, 102, hermation of nucleus pulposus as cause of compression of, 203

Splanchnic nerves, Variations of alimentary glycæmia induced by alcoholic injection of, 203, effects of uni lateral and bilateral resection of major and minor, in essential hypertension, 204

Spleen, Traumatic laceration of diaphragm with hernia of stomach and, 28, action of ultraviolet rays on healing of wounds of, 256, rupture of normal, without known cause, 532, heterotopic ossification in, 567

Splenomegaly, Chronic congestive, and its relationship to

Banti's disease, 333 Sprains, Acute and chronic, 351, pathology and treatment of, 351, periarticular injections of novocain in manage ment of, 550

Staphylococcus, Symptoms of surgical septicæmia due to,

Status thymicolymphaticus, 266 cheeral ferritrations of

Stierka Juno la romatemograma mada se hyperolassic intestinal tuberculous, 130 Stormech. Review of any hiterature on enstructuational ra-

cerativ dissess, | transastic laceration of disphrague with betaux of 15 chancel aspects of tohoronous of ary cancer of, o, acute postoperative diletation of complicated by perforation, 148, telegrations of follessing roccition therapy 54, nature of healing of surposal weeness of, in relation to technique of solure, 4, time of operation for older of 70 ODETALIVE treatment of hypertrophic stenoms of pylores in infasts, 314, spans in exology of peptic sicies, 217, perforation of carcinomia of rato general peritones. ca ty 43 prevention of pulmonary complications in sargery of, by pre-sperain accisation, 450, thorace, is case of displar-grantic beram at excepting cal blatus with short emophagus, 5 complexitions of ferrum hodies in, 514 callectiv inquery by Fellow COCUPACALISMA of Association of Surgeons into gastra cremal picera tion, say asture and treatment of pentic plose based on 1,435 cases, 5 5, surgery in treatment of pentic sicer, 126; panel of abdorneed conditions in christhood.

Sira Darry gall bladder Experimental production of Streptococcus, So-called primary errotomenetic or metastatic peritorities due to, a therepeque um of con contrated antistreptococcus strain of New York State Department of Health, 373 400, putrid congruent due to anaeroise, 418, symptoses of surgeral explanemia due to, 475 septicopyrense due to with prolonged

COURSE, 57 Stroggnod method, Asslyss of 17 cases of eclassoms treated by moduled, set

Substrumed burse. Calcarsons deposits ta. 242

Subarachood assesthese, 207 Subarackaned custerns, Seguineance of absormally absord. as arre to excepbalogram, 414

Submanilary stand, Introductain calculoss of So Sense Changes in level of an blood senocrated with extracal operations, 6, shaporant conditions of pregnancy and contest of, in blood of mother and child, 5, action of certain fermentative processes in timpor turns of sobstances chosing hypochycents, the variations of singentary glycentse induced by alcoholic rajection of spianchines, so; behavior of of bleed after injections of piacental extracts, 440

Seprenditio tumors, Treatment of, 9

pomets to aportion, 21

Suprarenal, Suprarenal cortical syndrome, 30, aberrant advanced teams in epidedymen, 14, effect of extract of cortex of an controlling about following injection of armsoms extracts of closed ratestmal laces. So, ra acrits intestical occinion, 7 transplantation of cortex of for Addison disease, 35 behavior of lactic acid of blood in insufficiency of 37 influence of on formation of bony callon, 340 interrelationship of corter of, and anterner lobe of hypophysis, 375, hyper function of cortex of, 441 termors of 44 high pressome croses dos to, 441

Suprareaalectomy, For arteral hypertenson, 4 effects of in male rais, 15 Supraspinatus tendos, Calcaroous deposits in, 249

Surgical rades, Bad, 570 Suture, Nature of healing of surgical wounds of storesch m relation to technique of 14

Sotures, New Physiological material for sor allerer to catgut, 473 Serent glands, Relationship of so called unablical ads-

Sympathectory Effect of epocologs on busing extremely subjected to, 240' for relad of parts, 47 dynamic hydroneraliones and, of preter, 145 Sympathetic nervous system, Nacroverstain, state of

py elitis of pregnancy so relation between blood call turn, parathysocia, and, 57 Sympathetic ophthalms, Allergy theory of, sol

Synogonyella, Surgical treatment of, ast treatment of with X-tave .

TAKATA-ARA reaction in surpost conditions, er

Talmes, Set Clob-foot Taken operation in treatment of curious of liver 513

Taloraicanesi romi, Arthroduss of, in treatment of smere maliprone pope of foot, and

Torth, Intracellaier becterie in dental eraralose, as. heterotopic teeth and their mendeance.

Temperatura, Research reporting surface, of body in obstatus and gracology 118, hypertherms cannot by short was, 37
Temporal boss, Roseites theners in petress borbes of

temporal bone without choscal mandestations, or Tencion, Calcarrona deposita in sepraspusatus, 242

Tencions, Realing of experimental lenous of, size results of soture of m band, att

Terans area, Come and treatment of ex-

Teratomata, Structure of, 474, Jetsform ovarna, 668 Testacie. Deferential discrease and treatment of temors of. at production of testicolar descent with autencepathitary like fraction of preparacy arise, 45, 45, co-emisted custors and failurenium of, 47 maligness twiners of 47 territor of speriments cord, 33] acres

tuberculous quality not-orchites, 344 orders of cryp-torchidams, 35 sanignant greents of undercrained, 33 chancel and pathological study of fifuncations of under agricults, 30 results of speculation of heprologing the morning important rate in attracts at experimental alteration of malignancy 185, invators of, 140 behavior of, following partial or total renewal of panetal portion of theses vappels.

148 Tetames, Treatment of, 37 peophylams of, 38, actual alock and strom scrippes following tetames actual tion, 381 vaccination against, 38, present status of truiment of 403

Thacks, Prolonged administration of to rate and its bearmer on reproduction, 199 Theriol. Prolonged administration of, to rais and its bear-

me on reproduction, \$10

Thorstophety Non-operative versus operative measures is treatment of pulmonary tubercaloss, so in treatment of fannel thest, son, 419 versus postmenticus. for pulmenary tuberculeus, soy in bilateral ca errors taberculeus, soil in treatment of polysomary taker culcute, sod, 5 4, 418, results of extraplement, in trust ment of pulmentry tuberculose, 418, squelcusce of changes to smoote pressure after to relation to crimit of physical, Its Thorax, Surgical treatment of intrathorace personnel

Shroblestown, so, treatment of acute transactor hermotherax, of, mycous of, or surpocal treatment of funnel, sed, 419, report of Chest Tenor Repairs

Thornes diexale, Diagnostic and therepeater sees of, 14 Threat, Sas Pheryax

Thrombophicista, Themo electrical researches regarded scarface temperature of extrements in, 118, blood cheapes in, and their diagnostic importance, 552 Thrombons, Transistic, of right andlery year, 541 of w

of lower extremely and pulmonary embolism, 144, 162;

statistics on, covering twenty years, 148, of sigmoid or lateral sinus, 193

Thymectomy, Influence of, on genetic activity and off-

spring, 340

Thymophysin, Action of, on contractions of uterus, 427, results obtained with, in eases of weak labor pains, 438 Thymus, Relationship between, and benital organs of im mature female rabbits treated with pregnancy hor mones, 230, clinical implications of, and status thymi

colymphaticus, 372, biological effects of extract of, 374 Thyroid, Histological structure of remaining after cure of Basedow's disease by subtotal thyroidectomy, 21, total removal of, for angina pectoris, 90, 197, content of hormone of, in blood during pregnancy, 124, total ablation of, for congestive beart failure, 197 surgers of, as affected by generalized use of iodized salt in endemic goiter region, 197, transplantation of living grafts of, 198, increasing secretion of milk with anti thyroid protective substances, 233

Thyroidectomy, Histological structure of thyroid remain ing after cure of Basedow's disease by subtotal, 21, total, for angina pectoris, 96 197, total, for congestive

heart failure 197

Thyroxin, Use of, in ophthalmology as local agent and

metabolic alterative, 298

Tibia, Autogenous bone pegging for epiphysitis of tubercic of, 141, peg shelf formed from bone of, in congenital dislocation of hip, 455, surgical treatment of recent depressed fracture of articular surface of, 556 Tibial nerve, Malignant tumor of left, 25

Tidal dramage of urmary bladder as applied to cord

bladder, 546

Tissue cultures, Action of radium on, 264 Tissue extracts, Use of, for hamostasis, 478 Toes, Gangrene of, in polyarteritis nodosa, 144

Tongue, Radiotherapy of cancer of, 19, sarcoma of, 406 Tonsil, Radiotherapy of cancer of, 19, 408, 564, treatment of lingual, and lateral pharyngeal bands of lymphoid tissue, 196, anatomical study of peritonsillar spaces, 303, treatment of cancer of, by divided doses of ex ternal radiation, 408, 564

Tracheotomy, Difficulties of removal of cannula following,

95, advantages of high 500

Trachoma, Nature of elementary and initial bodies of, 90 etiological diagnosis of conjunctivitis, 298, in British Colonial Empire, 300 relation of, to blindness, 300 existing means of relief of 300, prophylaxis of, 300

Transfusion, See Blood transfusion

Trichiasis, Operations for, 17

Trigeminal nerve, Tumors arising from sensory root of, in posterior fossa, 414

Trigeminal neuralgia, Bilateral, 202

Trochlear nerve, Paralysis of, 403

Tubercle bacillus, Search for, in urine, 136, filterability of virus of, in surgical tuberculosis 473

Tuberculin, Treatment of hamophilia with, 250 Tuberculosis, Calmette vaccination in prevention of, in childhood, 268, filterability of tuberculous virus in surgical, 473. See also names of organs

Tuberculous rheumatism, 138

Tularæmia, Consideration of 123 cases of, 475

Tumors, Action on certain fermentative processes in tissue of, of substances causing hypoglycaemia 164, results of attempts at experimental alteration of malignancy by inoculation of material of homologous mammalian, 165, classification of, according to radiosensitiveness, 263, histological study of myxomata and myxomatoid, 269, influence of pregnancy on growth of, 342, results of arteriography in, 360, constitutional predisposition to, of genital organs in female, 433 Heublein's method

of continuous irradiation of cutire body for generalized. 468, malignant melanotic, of female genitalia, 540 See also names of tumors and organs

Tunica vaginalis, Clinical and pathological study of fibrosareoma of, 136 behavior of testiele following partial or total removal of parietal portion of, 348, multiple fibromata of, 440

Tympanum, Mucopurulent infections of, 18

TLY \ Congenital synostosis of, with radius, 352, pain ful pronation in young children due to catching of bicipital tuberosity on posterior crest of subsigmoid cavity of, 552 Ultraviolet light, Treatment of suppurative peritonitis

with, 60, action of, in healing of wounds of skin, muscles, liver, and splicen, 256

Umbilical adenomata, Relationship of so-called, to apocrine sweat glands and adenonbrosis of breast, 212 Umbilical cord, Treatment of Werlhof's disease with serum

of, 249

Umbilical hernia, Multiple ventral hernix with concomi-

tant strangulated, 110

Urea Observations on, in high intestinal obstruction, 32 Ureter, Relation of physiology of upper urinary tract to climination urography, 44, effects on upper urmary tract in dogs of incompetent ureterovesical valve, 131, stenoses of, 132, occlusion of, following radium im plantation into ecreix uteri, 237, new method for com plcte nephro-ureterectomy for primary tumor of, 347, treatment of bilateral calculi in, 444, dynamic hydronephroses and sympathectomy of, 545

Ureterectomy, New method for complete, for primary

tumor of ureter, 347

Uretero-arachnoid anastomosis in treatment of hydrocephalus 203

Ureterocele, 44

Ureterodural anastomosis in treatment of hydrocephalus,

Ureterostomy, Cutaneous, in treatment of persistent cys titis after nephrectomy for tuberculosis, 347

Ureterovesical valve, Effects of incompetent, on upper

urmary tract in dogs, 131

Urethra, Formation of continent, in woman and use of this operation in exstrophy of bladder, 39, cancer of, in male, 132, radical curettage of posterior, 238, method of repair of, in complete rupture of, 445, malignant melanotic tumors of female genitalia, 540, experiences and end results in injuries of urinary passages, 547

Urmary tract, Relation of physiology of upper, to elimination urography, 44, bilharziasis of, 237, etiology of

stone formation in, 346, colibacillosis of, 447 Urine, Search for Koch's bacilli in, 136, prehypophyseal hormonuria in malignant tumors of uterus, 336, remissions in hyperthyroidism induced by extract of, of pregnancy, 407, melanocy te reaction of preparation of pituitary body and, of cancer patient, 569

Urography, Relation of physiology of upper urmary tract to elimination, 44, pyelographic injection of penrenal lymphatics, 130, pyeloperistalsis characteristically

altered hy infection as shown by, 162

Uterus, Radium therapy in hamorrhages of, of benign origin, 37, 335, incidence of vaginal fistulæ in patients with carcinoma of cervix of, 37, prolan in treatment of abnormal bleeding of, 37, hlood transfusion after hamorrhages from, 38, active expansion of, according to Sfameni and its value in physiology of pregnancy, 40, pathological anatomy and pathogenesis of ædema of cervix of, during labor, 42 treatment of fibroma of, in absence of pregnancy, 118, endometrial findings in functional menstrual disorders, 120, sensibility of

fescale internal general organs and question of pale in gynemics and labor, temperature and vascular reaction in treatment of infarametery decases of female genitals with heat procedures, as lymphosarcomatous of female emptal organs. maximal mesh of blending, say, treatment of prolepse of, esg, 135; spontaneous phichata dunce course of de element of myomats of anti-prognom of curtinome and prognome in cancer of cervix of, 220, Schiller's test for early symmos-cell currenous of cervis of, 226, lescoplakis and cancer of cervis of, 227; that lymphadenectomy with praduction to cancer of cerviz of, 227; surrouse of, 228, 428, relationship between thymus gland and genetal organs of suscenture female rabbits treated with pregnancy hormones, 313 ureteral outheren following mediactation of indicate in cervix of 17 reentgen therapy of gracolespoal informations, so; treatment of prolipse of, 2151 radiation treatment of curciouss of cervix of, 250 prehypophysical hormosuma in malagnant tumors of age bookstone and dangers of application of radions in m treatment of carranges of body of, 356 therms sic trical studies of, 338, pastential development of, in allene rat, 156, therapy of late puerperal horsorrhage, 343: treatment of surgical inpuries of following child-burts, 345, action of thyroophysics on contractions of, 417; spoutaneous repture of capsule of myema of 427 colposcopic disgraps of caremonia, 416, sarcoom of, ask, use of progressia is hypoplassa of 411, constate bonal predisposition to targets of grantal organs in female, 411, retraction of ferent and left parametrium in hypophese of gentrales, 444, action of extract of corpers latisons on, of mennesthetised rabbit, 437, action of gonedetropic extracts on movements of o uneassethetised rabbit, 517 new acts: principle of ergot and its effects on mobility of, 517 herological classification of cancers of circus of and relation between growth structure and tapalts of radians treat ment, 517 obstetrical programs of large fibrograms of the

VACCINATION Anti totaxin, 52, serson shock and servin sechose following, for tensors and its treatment, 55, prophylaxin of tensors and service scheme, 57 value of Chinette, in prevention of tubercalous in childhood, 65 of services intains, 56 in treatment of genorrhean in fenals, 431 pre-entities of pulmonary complications in surgery of stomach by pre-operative,

vectores, A togenous, su pysiosephints of prepasacy: 446 Vegnas, bacidenes of fastale of, in cucromous of crust ten, 37 pointstal development of gestal organs of allians mit, 136, thermo electrical stades of, 136, ser come of 3, all treatment of pomeany cancer of surification of manufactures, 3, all of points of service to the company of histories through further of service of the best company of histories through further organizations.

malignant malanotic terrors of, 540 Varioncela, Treatment of 50, 547 Varicose cina, Comparativ value of uninveness sciences and matterns in treatment of, 543 treatment of, by prehamous real legitimes and internal suphenous cas with superiors of acterioring solutions, 345

Vascriar yetms, Early development of, 843
Vela, Traomatic thrombians of right arithry 54, probalmary high lightness of faternal suphrasses, with superties of activities of substitutions in treatment of amountment of

Vector. Comparatives value of nativereness adversarials, assume in terminant of variances, \$44 therefore \$6, of lower extrement of variances, \$44 therefore \$6, of lower extrement y and pulsessary candooss, \$14, \$55 to obstitute 10 pulseties in of instead separatives seems septement liquides of internal suphernous can with injuries and selections, solonizon, \$40, anterior reconstruction of selections, and carbon consequences as, after the pulse of the pulse

yest technique for treatment of teams. block of yest delatations of cavara septi pellands and

block of 300 delatations of cavaza septi pellanch as cavaza erges, 4 Variabra, See Spane Vlason, Relation of fractions to loss of, 300 Vlasof, Seld Uniformal control and asserter engages

Visual field, Unistered crossed and nanche scotters perchased by calles from finchers estimating into opic casal, our memogeneous statedred to mental part of spherical radge with syndrous of natherest spice attriplay defect in, of some eye and changes to refe terrice and in shape of interprehasershar casters after morpholography 309.

Vocal corth, Strepning of, 97 Vocal mechanisms, Vicarous, after larguspectosing 530 Vocal Dev formant of, by larguspectosized persons, 520 Vocather, Perancoust, of prepassory 125 Volus, Treatment of personateral pressits 44, 432

WATER, Observations on, with regard to cases of death in high intentional observation, \$11 bilance of an asseptial consistions, \$17, absorption of \$10, asset for intention and colon. \$50 influences of depth attention of sections of sections of sections of sections of colon and colonies of sections of sect

Warffort Channa, Transmant of, with resultances of symbols and Transmant of woods by local applications of systematic statement of woods by local applications of symbols and produced to the systematic treatment of an applications of superioristic treatment of anticodar, second sides with rays on landing of, joy importance of between the resultance of the systematic statement of the system of the systematic statement of the system of the systematic statement of the systemati

plat, trustment of, with end liver of continent, or Wret, Malacias of navicular hone of, or, trustment of fractures of scaphold bone of, 423 mercons of acudlionar bone of, 4403 condensation of namicinar bone of, 4403.

X-RA's See Resentation may

# BIBLIOGRAPHY INDEX

### SURGERY OF THE HEAD AND NECK

Head, 64, 160, 273, 376, 480, 574
Eye, 64, 169, 273, 376, 480, 574
Ear, 65, 170, 274, 377, 481, 575
Ose and Sinuses, 65, 170, 274, 377, 481 575
Mouth, 66, 171, 274, 378, 482, 576
Pharynx, 66, 171, 275, 378, 482, 576
Veck, 66, 171, 275, 378, 482, 576

# SURGERY OF THE NERVOUS SYSTEM

Brain and Its Coverings, Cranial Nerves, 67, 172, 276, 379, 483, 577
Spinal Cord and Its Coverings, 68, 173, 270, 379, 484, 577
Penpheral Nerves, 68, 173, 277, 379, 484, 577
Sympathetic Nerves 68, 173, 277, 380, 484, 579
Miscellaneous 68, 380, 484

### SURGERY OF THE THORAX

Chest Wall and Breast 68, 173, 277 380, 484, 578 Trachea, Lungs, and Plurra, 68, 173, 277, 380, 485, 578 Heart and Pericardium, 69, 174, 278, 381, 485, 579 Œsophagus and Mediastinum, 69, 174, 278, 381, 485 579 Miscellaneous, 70, 174, 278, 381, 485, 579

## SURGERY OF THE ABDOMEN

Abdominal Wali and Peritoneum, 70, 175 278 382 486, 579
Gastro-Intestinal Tract, 70 175, 278, 382, 486, 579
Liver, Gall Bladder, Pancreas, and Spleen 73, 177, 280 384, 483, 582
Uiscellaneous, 74, 178, 281, 383, 489 583

### GYNECOLOGY

Uterus, 74, 178, 282, 385, 489, 583 \(\text{Adnexal}\) and Periuterine Conditions, 75 179, 282, 386, 490, 584 External Genitalia, 75, 179, 283, 387, 491, 585 \(\text{Miscellaneous}\), 75, 179, 283, 387, 491, 585

### OBSTETRICS

Pregnancy and Its Complications, 76, 181, 284, 388, 492, 586
Labor and Its Complications, 76, 181, 285, 389, 494, 587
Puerpernum and Its Complications, 77, 182, 286, 399, 494, 588
Newborn, 77, 182, 286, 399, 494, 588
Miscellaneous, 77, 182, 286, 391, 495, 588

# GENITO URINARY SURGERY

Adrenal, Kidney, and Urcter, 78, 182, 287, 391, 495, 588 Bladder, Urcthra and Penis, 79, 183, 287, 391, 495, 589 Genital Organs, 79, 183, 288, 392, 496, 589 Miscellaneous, 79, 184, 288, 392, 496, 590

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS Conditions of the Bones, Joints, Muscles, Tendons, Etc 80, 184, 288, 392, 497, 590 Surgery of the Bones, Joints, Muscles, Tendons, Etc, 82, 185, 290, 394, 498, 591 Fractures and Dislocations, 82, 186, 290, 394, 499, 592 Orthopedics in General, 83, 187, 292

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

Blood Vessels 83, 187, 292, 395, 500, 593 Blood, Transfusion, 84, 187, 292, 396, 500, 593 Reticulo-Endothelial System, 84, 187 Lymph Glands and I ymphatic Vessels, 84, 187, 292, 396, 500, 593

# SURGICAL TECHNIQUE

Operative Surgery and Technique, Postoperative Treatment, 84, 188, 293 396, 500, 504
Antiseptic Surgery, Treatment of Wounds and Infections, 85, 188, 293, 397, 501, 594
Anæsthesia, 85, 188, 294, 397, 501, 595
Surgical Instruments and Apparatus, 86, 189, 294, 398, 501, 595

# Physicochemical Methods in Surgery

Roentgenology, 86, 189, 294, 398, 502, 595 Radium, 87, 189, 295, 398, 502, 596 Miscellaneous, 87, 189, 295 398, 502, 596

# MISCELLANEOUS

Clinical Entities—General Physiological Conditions, 87 190, 295, 399, 502, 596 General Bacterial, Protozoan, and Parasitic Infections, 88, 191, 296, 400, 504, 597 Ductless Glands, 88, 191 296, 400, 504, 598 Surgical Pathology and Diagnosis, 88, 192, 296, 504, 598 Experimental Surgery, 192, 504 Hospitals, Medical Education and History, 192, 598



# AUTHOR INDEX

Vers B D 45 Her th 1 1 413 Harman Is & is a 11 mars 6 453 1645 m 1 3 547 1 home on the 111 Man Ellis that I W and 41 -11 515 Lalsh 2 5 1 17 Elop 6 in land 1, is litter h > 1 ? Ment of 1 ( or ) Lank Land Mercu H 113 Le tout II liell 1600, a 1 limate to the line line line in the line i Linnly 341 Mee H H 1 ) luil ] 171 Lich, L, 5 1

lalament (a) thice 11 11, 470 Baco F P 517
Baco F P 517
Balance V, 539
Balance V II 517
Balance V II 517
Balance V II 517
Balance V II 517 Bancou't, F W 141 Bardeur > 110 Barlo -, O W , 230 Barnard W G, 144 Ba ont B 425 Barringer, F. D., 433 Bauer, I 442 Bayumi M 40 Har, L, 253, 553 Bak, L 5, 413 Becker 5 W, 163 Bur, F , 235 Peerens J. og Bela, 11, 142 Bellucci B, 215 Bendandi, G, 422 Benedict, W. L. 91 Bengder, A. L. 116 Bengolea, A. J., 116 Bennett, V. F., 412 Bennett, T. I. 162 Bergh, G. S. 332 Bergstrand II 25 Berlin, D. D., 197 Bernabeo, 1 5.0 Bernardini, R , 48

Bette bitt is U ١ ξ Rettia 1, 1, 4 4 Mucd ( 14 Bre Joansi, 1 10 hit \ 100 hit \ 1- 372 Block I too Bun and H I 1 17 R 👡 , K 5 holar n G lu'a R Ge 111 11 6 1, 2002 6 150 1 inner 1 c, 125 R :- 11 1 Buchach M 10 Box oth D M 14 Rasca W H 3 a Luam , H II 25 Bler J P 3 3 Brice I F 40 3 4 Buyle P 1 -1 Brandman II 114 Bray 1 A 150 Bray 1 A 150 Bray 0 y Diaz Canche 50 Hrawner J | Jr 317 Brenner O 197 Bristos W K 40 351 359 Ureler J I W 101 Brianke K 40 1 rooks 11 159 Brown ( [ () 114 Brown | W 372 Brown G I 01 Bruvne D 355 Broyles F V 103 Brunn 11 314 1 140 Brunschut, A. t. Buerlo a P. 209 Bucura ( 320 Busbec 11 G , 237 Burbury W M 144 Burns J W 439 Butenandt \ 339 Bucello 1 258

> (adden, J l 342 (alliau l , 416 (alliau l , 416 (alliau l , 512 (aldwell, W l 119 343 (ald ( 131 573 (anavero, W 346 (andolin 1 , 534 (anelo, C k , 510

Cannon D J, 250 Caporale L 545 Canhri N 325 (adi t. 131 Caffon H. V. 133 enth is to 1, 120 (act 1 1, 105 Untarna P 230 330 ta tomicio R, or sor Cathala V ı ( utidl R H , 5,500 Citterina, Vist -Cault IR 53 transell b. 17 Cecil A B, 47 1 dlu ( 45 Cent 5 507 (11 ibers 11 537 Chan. L. W. 207 Charle nnel ( | sumet 6 350 ( ) 1746, Chile CR 1 Chiskolm V F 2 3 Christiana I V, 237 Churchill 1 D 371 Charlet 1 1 37.4
Charlet ( -03
Charlet ( 1, 17)
Charlet ( 6, 16)
Charlet ( 7, 16)
Charlet ( 7, 16)
Charlet ( 1, 16) Coletti D 1 28 (offer 1 1, 37 243 Colling W 1, 61 Colonna, P C, 152 Colon, 130 Colston J \ C, 347 Compere, L. 1, 455 Connors, J 1, 103 Consols \ 436 Contrades, \ J, 360 550 Cook, F. 433 Cooper K. G. 10 Copeland, M. M., 368 (openliaver, W, 52 (orvllos, P > 207 Costa G 111, 423 Costantini 11, 31 Cotte G, 225 (orui, 1 W, 367 Covan 1, 411 Crath W McK, 204 412 Crampton, II P, 259 Craver, L F, 252, 465 Creelman, N, 121 Critchley, M, 266 Crowe, S J, 193 Cruickshank, R, 462 Crynes, S F, 432 Cuadrado, F, 28 Cumming R E, 162, 444 Curtillet, F , 350

Cutter, C. W. Jr. o. Cutter, I. C. os. Cutter M., 202 Cutter, R. A. 12)

Dahle VI , 542 Dainelli VI 478 Dill Acqua A , 218 378 Damel ( 7, 17 Darmaillacq, 49 Dirrach W., 47 Datros, M. W. 435 D'Auros R 35 David V C 323 Daviden L M, 414 Davied L M, 4
Divies, G I S
Davis, I N, 311
Davis, I 100
Davis M F 337
Davis L, 341
Davis M R 30 312 Debre R 107 Debuch L. 13-Dechrume M 50 De Cholonoss, f 302 DOLLER P 447 De Dalembox M. 5, 255 De Lourniestraux 357 De Langre M , 2 8 Delel of, J , 141 De Lonmier 1 2. Demirleau J 103 Denison R, 315 Dennison, 235 Deabonnets, G. 212
Deabonnets, H. 212
Deabonnets, H. 212
Deajordins \ U. 146, 203
D I sopo, D \ , 119, 343
Deve I , 67
Dill, J L. 193
D \ Natale L. 50 Di Natale L, 59 Dinnick P, 113 Dixon O J 143 Dobraniccki W, 414 Dodd, II , 246 Dolsopol V B, 514 Donald, C, 201, 512 Donati D 130 Donald D 130
Donaldu, F P, 340
Donnally, H H, 408
Donovan, H, 197
Doroshow, G D, 132
Dorrance G M, 297, 405
Drissen, I M, 530 Du Bourguet, 356 Ducroquet R, 316
Ducroquet R, 316
Ducroquet R, 316
Ducung, J, 118, 233
Ducl, A B, 310
Duke, R 432
Dunbar, J, 402
Dunbarl, Str T, 521
Dunnington, J H, 507

Fresh, P 457 Frommoit, G Dupus, P v 157 Dupuns, P V 350 Duyyenes, F 03 Froyes, R 190 Dika C G 100 AIA Fache F 4 Echola, D. H., 203 Echemon, E. B. Gabriel, W B con Gabrielli, 5 105 7 Cale, H. L. D Eduards A. T and 1 s Edwards, H. C 35
Eggers, C 317
Eggston, A A 00
Edwards, E 527 Galla, R 43 Gallowsy, C. E. Gambod, M 43 Gandolfo, A 70 Gardoer C. E. Jr 225 Garland, L. H., 304 Entrace A, 505 Electric, E L, 504 Dibott, A.R., 54 Garmer C and Lin R W B 349 Gerreel, G himon, E. T 67 Gatellar, J ě. Elman, R. 336
Elman, R. 336
Elmery, C. A. 300
Emery, E. S. J. 525
Emery, L. A., 344 Gum, C. J. 17 Galda, H. Gardddur, C. F. Gry 6.6 95 447 Entry S 150 Encircles, 70 Daebox, J B 131 Ermer M S 95 Gery C. O of Guzechi, N., 40 Guinna, T. L. 545 Galactimo, E. 345 Galactimo, E. 30 Galacti, J. B. 44, 47 Galacti, R., 143 Galacti, E. 307 Oda, J. F. 330 Galacton, A. Famelela, S Ferrina, P. L. 3 S Farrell, J. T. J. ; Farrell, I.H. 445 F.y. T. 4 Feckerovick, D. 5 15. Gillard, A 50 Geographic gerr, A., 41 Geographic, A., 43
Choya, E. 13
Chonet, 90
Chonet, H. 419
Chaner M. A. 414
Coonach, E. 504
Goldzenber, M. 441
Goesse da Costa, S. F. Feldman, M , 4 Feneter E., 62 Festing, R. A., a Festing, R. A., a Ferguson, A. B. rerguents, A B 14
Ferrard, R. C 47
Fèvre, M 357, 554
Flaid, A B 107
Fria, G L 59
Fut, F A 90
Fut, F A 90
Futers, P 57 Gondanton, M., 440 Genton-T ylor, O 446, 570 Goyunta, J 27 Genno, R 57 Grando, R. 67 Graves, R. C. 50 Gray A. A. 93 Gray H. K., 10 Gregorians, N. F. 4 Fishers, P. 57
From, A. 15, 508
Flivor W. B. 50
From W. M. 575
Fusher A. M. 418
Fitzgerald, J. E. 542
Flatcher E. M. 5 5
Flom, F. B. 364
Floory H. W. 57
Fushers and C. F. and Grenet, H , g 6 Golb, A 515 Graner, 345 Gross, R. E Gross, S. W. 100 Flahrman, C F Foreless, 5 J Guentz, E., 450 Gulhern, F. 32 Gundel, M. 322 Forty F 5 Foster J M Fee, S L I 33 111 Caynos, F | 142 Franceschi, E 44, 45, 38 Francoss, J 401 Frankl, O 635 France I 84

Hans, M., 469 Hans, S. L. 453 Hagadoors, A. 3 Halin, J 546 Halderman, K O 53, 143 Hall, C 94
Hampson, A C 112, 413
Hampson, J 47
Harmon, J 47
Harmon, I J 106
Hartan, M J 18

Harrier W D , sot Harriagten, S. W so Harris, W 10 Harria W 50
Hart, D 315
Hartman, C O 704
Harech, E 437
Haworth, E M 310
Hayer, W I 545
Hoscock, C H 326
Hearly W P 336
Hearl, K M, 463
Holdson, C A 438 Herman, J., 206 Herch, P. S. 12 Herches, R. R. 46 Henry A. K., 146 Herrer C. C. 140 Herger C. C. 240 Harmann, L. G., 244, 36 Harmberg, B. 10 Hener, G. J. 27, 150 Heynemann, T Honelmann, H 438, 540 Hintan, A. 6 Hirrich, I. S. 264, 466 Hodgen, P. J. 41 Hodgens, A. C. 59 Holer, O ms Hofman II 3 115 Horman, J. 505 Horner, J., 5,7 Hoover W.B. 65 Hope-Robertson, W.J. 93 Houdard, L. 157 Heesard, M. E. 545 Howard, R. C., and Howardh, M. B. Howarth, W 403 Hoyle, C 95 Hort, P 157 Hogorous, L., Hunt, E 414 Hunt, A F, Hunst, A.F., 22 Hutchmon, R.G., 5.7 Hyman, H.T. 500

Illick, B. E., 111 Incas, J. 5 Isaac-Georges, P. 516 Ivy A. C., 314 Jackson, C. L. 115 Jackson, H. J. 473 Jacobs, W., p. Jagerroos, B. H. 248 Jacos, T. G. I. 41 amenta, P.C. and innen, K. M. 252 junen, M. 552 junett de Bennjen, A.,350 jeficoste, T. M. A. 229 jegomof, B. 249 militar E. H. 45 tema, H sol menes Cervantes Precio,

Jely J S 345 ona, G, 200 one, H. W 361 oro, T M 328 ladet, J 357 lades, E S, 45 lang, A 507 Kadraka, S. 55 Kahn, M. E. 37 Kallen, L. A. 476
Kanick, E. 145
Kanick, E. 145
Kanick, E. 145
Kanick, E. 145
Kanick, E. 147
Kanick, E. 147
Kanick, J. 147
Kan Kales, L. A 510 Kutana, L J 21 Kirsch, O 47 Kirsch, O 47 Kirsch, T J 30, 5 Kirscher G. H 443 Klaften, E 9, 425 Koch, S L 53, 430 10.15 9,400 Koma, B 445 Komanan, F W 116 Korncharsky 15 Korncham, K., pol Kondolm, A. S. 199 Contac. H 441 Kotiment, H L Kotkma, H., yo Londoin, A., 140 Erabbe, K. H. 101 Eracks, R. R., 61 Клам, Н Kretschmer, H. L. Erobo, C., 04 Erembhase L Kubse, L. S Knestner, H 11 Kurarok, R

Ladd, W. E., Lagergree, E. A. 452 Lagoratono, E.H. 13 Laboy F.H. 130 Lancy L., 194
Langa, M., 244
Lancon, L. M. 55
Lancon, J. C. 61
Lancon, J. C. 61 Lambs, A I 404 Learnesth, J. R., 472 Le Bers, L 57

Lea, H 5 Lapant, R R, 197 Legrand, M., 121 Lebrand, E. P. 201 Lebracus, K., 437

Freman, N. E. 349, 47
Frasherg, A. H. 454
Frenches, R. L. 30
Frack, R. L. 30
Frack, R. L. 30
Frack, R. L. 30
Frack, R. L. 30
Frackewskid, J. 43
Frackewskid, J. 3
Frackewskid,

France C H, 202, 5 3 Freeman, N E 249, 47

Harton, M. 58 Harding, H.E. 232, 57 43

Johns, E.P 10

La Lanct 41

Lenggenhager, K, 460 Lenormant, C, 424 Lenz, M , 199 Leon, J , 438 Lepper, E H., 517 Leriche, R., 442, 567 Le Roy, C. M , 137 Leucutia, T, 252 Leveuf, J, 558 Levin, L, 517 Levislaia, M K, 38 Levy, 235 Lévy, A., 457 Lewis, D, 104 Lexer, E., 149 Ley, A., 24 Lieber, H., 366 Lillie, W. L., 92 Linde, F, 553 Lioy, D, 236 Lisser, H., 510 Livingston, E M, 366 Livingstone, H, 159 Lloyd Davies, OV, 529 Llusia, J B, 541 Lob, 370 Lob, A., 469 Lochr, W., 98, 461 Logroscino, D., 451 Loré, J M, 97 Loudenslager, P E, 297 Louste, A., 416 Louyot, J, 128 Lowsley, O S, 538 Lozano, R., 115 Lucarelli, G, 217 Lucchese, G, 349 Lucchese, E, 567 Lukacs, M, 427 Lumsden, T, 269 Lunardi, B, 242 Lund, C C., 94 Lyle, T K, 93

MacCallan, A F, 300
MacComb, W S, 468
MacDonald, D, 264
MacBonald, D, 264
MacKenty, J E, 200
MacKenty, J E, 200
MacKenty, J E, 200
MacKenzie, D W, 135
Mackey, W A, 223
Macklin, M T, 560
MacMahon, H E, 448
Macmillan, S F, 44
MacNeal, W J, 373, 406
Macme, J P, 507
Macrae, T F, 260
Maddock, W G, 57, 248
Madruzza, G, 124
Maes, U, 20, 364
Mahon, R, 542
Malujšev, B, 55
Malniak, J W, 206
Mamou, H, 107
Maril, 434
Maril, R, 31
Maril, R, 31
Maril, R, 31
Maril, G, 39, 445
Marsálek, J, 437

Marsella, A, 134
Martin, C. L, 564
Martin, H. E, 408, 564
Martin, J. M, 564
Martin, W. J., Jr., 326
Mascottra, R. L, 224
Masmontell, F, 557
Mascott R, 266 Massart, R., 356 Masselot, F, 350 Matheson, N M, 45 Mathieu, J, 225 Matolay, G , 373 Mauro, M, 50, 323, 430 Maxwell, J P, 549 Mayer, 43 McClure, R. D, 197 McCoy, H A., 265 McCurdy, G A, 236 McFetridge, E M, 20, 364 McGaw, W H., 138 McLintosh, H C, 264 McKissock, W, 329 McLaughlin, C, 364 McNattin, R. F, 408 McWhorter, G L, 34 Meigs, J V, 37 Meiglere, J, 16r Menegaux, G, 366, 554 Mentzer, S H., 31 Mercier, O, 337 Meyer, G, 254 Michon, P, 128 Miescher, G, 564 Milkelsen, O, 116 Mulch, H., 50, 52 Milkman, L. A, 245 Milker, R. H. 463 Milligan, E. T. C, 330 Mintz, E. R, 45 Mitchell, A. G, 372 Mitchell, A. G, 423 Mitsui, K, 230 Mixter, C G, 197 Mocquot, P, 228 Moersch, F P, 414 Molesworth, E H., 59 Mollo, L, 449
Mollo, H. C., 119, 343
Monod, R, 108
Monroe R. T, 525
Montemartini, G, 362
Montgomery, J. B, 38, 119 Moore, C R, 539 Moore, J J 245 Moore, J M, 53 Morgan, C N, 330 Morgan, T N, 537 Morson, A C, 44 Mosinger M, 98 Moszkowicz, L, 135 Moukharinsky, A, 44 Moulonguet Doleris, P, 26 Muncie W, 255 Munro, D, 546 Murray C R, 52 Murtagh, B L S, 197 Myers, D 195

Vaish, A E, 412

Nathanson, L, 198
Naujoks, H., 335
Naulleau, J, 360
Navratil, E, 428
Neuhof, H., 316
Neustaedter, M, 514
Neuswanger, C H., 131
Neuweiler, W, 124
Nicholson, G W, 568
Nicholson, M M, 268
Nogara, G, 214
Nordenson, N G, 55
Nordland, M, 33
Nordlund, U, 213
Nornder, E, 524
Norns, S, 37
North, J P, 562
Noszkay, A von, 443
Novak, E, 337

O'Brien, C S, 506
Ochsner, A., 54, 318
Odasso, A., 61
O'Day, K, 17
Odiette, D, 554
Ogilvie, W H., 526
Olivecrona, H., 100
Oliver, R L, 406
Olivier, H, 161
Oppenheimer, B S, 235
Oppenheimer, G D, 346
Ormerod, F C, 201
O'Shaughnessy, L, 320, 566
Osmond, L H, 308
Ostrowski, T, 414
Oury, P, 572
Overholt, R H., 105, 318, 518
Owens, N, 318
Owings, J C, 198

Packalén, T, 230 Pagliani, F, 222 Paillas, J E, 321, 413 Pampari, D, 110 Pardal R., 202, 308 Pares, L, 552 Parker, F, Jr, 473 Parkinson, J, 196 Paroli, G, 121 Paschoud, H, 60 Patel, J, 424 Patey, D H, 223 Patrassi, G, 161 Patton, H., 407 Paul, R G, 223 Paulian D, 550 Pazzagh, R, 416, 562
Pearson, E F 207
Peckham, C. H., 541
Peet M M, 203, 414
Pendergrass E P, 411 Perslow, O, 520 Perussia, F, 19 Peterson, L., 112 Petren, G, 108 Peyton, W T, 52 Pfahler, G E, 268, 405, 417, 512, 546 Phaneuf, L E , 37

Phemister, D B, 159, 455
Phillips G, 99
P1, H T, 507
Piccagh, G, 54
Piccinino, G, 330
Piergrossi, A., 217
Pigeaud, H, 127
Pilcher, L S, 2nd, 518
Pilloni, S, 543
Pohl, H., 459
Poinso, R, 321
Pohitis, A M, 556
Ponzi, E, 234
Pornit, A. E., 154
Pottenger, F M, 26
Potter, A. L, 229
Pou, M B, 366
Prather, G C, 346
Prey, D, 166
Priwes, M G, 442
Prussia, G, 473
Puccioni L, 227
Puech, P, 23, 307

Quimby, E H., 368 Quix, F H, 95

Rabboni, F, 235 Rabin, C B, 316 Ragnotti E, 346 Rahm, H., 449 Raiga, A., 463 Raisman, V, 52 Rammstedt, C, 324 Ramsay, A. VI, 505 Rankin, F W, 326, 531 Ratner, ML 135 Raven, R W, 320 Reay, E R., 348 Reboul, H., 558 Redi, R., 235 Reggiani, M., 348 Reichenbach, E., 194 Reid, M R., 144, 361 Repetto, E, 213, 256 Reuter, F, 302 Riba, L W, 237 Ricard, E, 527 Richard, A., 350 Rienhoff, F., Jr., 108 Rigler, L G, 523 Rihmer, B von, 444 Rindone, A., 533 Ringer, P H., 314 Ritter, C, 257 Rø, J, 458 Robb, D, 242 Roberts, R. E, 40 Roberts, S. R., 162 Robertson, H. E , 148 Robertson, J. P., 47 Robinson L., 435 Rodger, T. R., 18 Ræderer, C., 350 Roger, H., 413 Rogers, G, 537 Rogers, H., 463 Rogers, W A, 555 Rohde, W, 307

Robert C Romani, A., 1s Rosh, R., 407 Ross, J. C., 405 Ross, C., 478 Rosdul, G. 14 Rousert, J 45 Rousey G, 21, 98 Rowntree, L G 374 Rubenicki, S., so Rubenstern, H. S. 45 Rueckert, W 57 Russell, D 67 Russell, W R., 3 Santo, M. 475 Salmachu, L. G. 25 Salman, A., 103 Schoelberg, M. J. 95
Schabert, E. von 594
Schart, H. P. 407
Schart, H. P. 407
Schartsch, S. 47
Schartsch, S. 47
Schartsch, S. 53
Schartsch, S. 54
Schartsch, S. Sener J W 555

Segmend, H., 430 Seephon, 235 See, L. F. 50 Spottrand, T. 134 Spottrand, T. 134 Sephon, M., 200 Skindma, G. 143 Shome, D. 506 Seart, Sir M. 15 Symmers, D 200 SHACKERY 5 31

130, 34 Trapi, J., 435 Trabat, P. 436 Trondale, P. 523 Tucker G. 51 Tucker G. 51 Turpanit, 41
Turrall, W 1 gds
Turrall, W 1 gds
Turria, W 11cC 1rd Ukle, C.A.W 1 Ukmoscher, F. 5 Umana en la 1920 Urcaney L 106 Valuerada, J. R., 6 Valuera, R. S. S. S. S. S. Valuera, B. M. 44 Van der Landen, P. 350 Van Hasel, W. 4. 8 Van Posic, G. McD. 22 Vastins, J. H. 268, 417 \$40, \$40 Vengtan, K. 40 Service, R. 40
Vana, V. 100
Vana, C. 537
Vancota, V. 3
Vator J. 504
Vator V. 13 Vantari, V., 33 Confeder I 30 Corn, If C 424 Yoron, J 7 Wada Y J 539

Walker, A. E., 201 Wallace, H. L. 200 Walleren, A., and Hallas, O., 432 Walters, W. 30 Walters, O., 173 Warthen, H. J. pto. Waters, R. M. 11 Hatton, B. P. 141 Watton, E. M. 441 Watton Walterns, E. M. Webb-Johnson, A. E. 4 Weddell, A. O. 64 HOM A SECT Welts, H Wenteredal, P and Wenteredal, P and Hearth, L. M., san Wharton, L. M., 444 Whatter, L. E., 444
Whatt, J. C., 409
H. decharen, H. J.
H. decharen, W. M., 124
White, R. A. 474
H. decharen, W. M., 124
White, R. A. 474
H. decharen, J. 765
White, R. A. 474
H. decharen, H. J. 128
White, R. A. 474
H. decharen, H. J. 128
White, R. A. 474
H. decharen, H. J. 128
White, R. A. 474
H. decharen, H. J. 128
White, R. A. 474
H. decharen, H. M. 215
White, R. H. W. 125
White, R. W Woods, R. C. and Woods, R. C. and Woods, R. C. and Hoods, R. S. and Hoods, R. S. and Wraght, L. T. 91 Wraght, R. D. 57 100mg A G 448 Zadek, I 451
Zampetti, M 51
Zamenti, F 7
Zamenti, F 7
Zamenti, F 7
Zamenti, 2
Zalozet, R 530
Zalozet, A 52

Corracycles, G 300 Zuppsoger A